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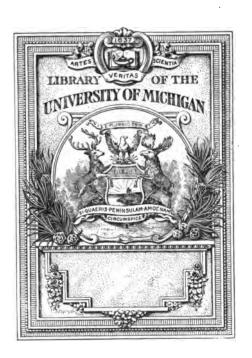
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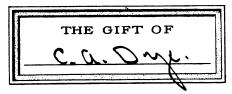
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Pharmaceutical Association.

NINTH ANNUAL REPORT 1887.







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PROCEEDINGS

OF THE

OHIO STATE

Pharmaceutical Association

AT ITS

NINTH ANNUAL MEETING,

HELD IN

AKRON, JUNE 8TH, 9TH AND 10TH, 1887,

TOGETHER WITH THE

CONSTITUTION, BY-LAWS, AND LIST OF MEMBERS.

CLEVELAND, OHIO: LEADER PRINTING COMPANY, 146 SUPERIOR STREET. 1887.

NOTICE.

Those wishing full sets of the Proceedings can obtain them from the Secretary at the following rates:

Proceedings of 1879, 18	80,	1881,	1882	and	1883	,		•		\$0 75
Proceedings of 1884,		•	-		-		•		•	50
Proceedings of 1885,	-			-		-				50
Proceedings of 1886,		-	-						-	50
Proceedings of 1887,	•		•	-				-		50
Or the nine volumes for										2 75

The next meeting of this Association will be held in Columbus, June 12th, 1888.

LIST OF OFFICERS OF THE ASSOCIATION SINCE ITS ORGANIZATION.

	Presidents.						
J. F. JUDGE, M. D.,	Cincinnati,	-	-		•	• .	1879- 8 0
J. W. DIETRICH,	Dayton, -	-	•	-	•	•	1880-81
I. N. REED,	Toledo,	-	•		•		1881-82
D. C. PETERS, M. D.	Zanesville,	-	•	-		•	
S. S. West, · · ·	Cleveland.	-	•		-	•	3 ,
JOHN WEYER,	Cincinnati,	-	-		•	•	
WM. M. MELVILLE,	Sandusky,		•	•	•	•	1885-86
VIRGIL COBLENTZ,	Springfield,		-	•	-	•	1886–87
S. E. ALLEN,	Akren,	•	•	•	•	•	1887–88
Firs	t Vice Presid	lents.					•
I. N. McCoy,	Kenton	-					1879-80
J. F. Judge, M.D.	Cincinnati,						1880-81
	Cincinnati,				-		1881-82
E. A. SCHELLENTRAGER,	Cleveland,			-		-	1882-83
	Cincinnati,			٠.	-	-	1883-84
W. J. MARTIN,	Cincinnati,			-	-		1884-85
CHARLES LUDLOW,	Springfield,		-		-	-	1885-86
C. N. NYE.	Canton,		-	•	-		1886–87
M. D. FULTON,	Bucyrus, -		-	-	-	-	1887-88
	d Vice Pres	idents					
M. L. Mooney,	Cardington,		-		•	-	1879-80
	Cleveland,		-	-	-		1880-81
J. N. McCoy,	Kenton,		-	•	-		1881-82
F. HARRINGTON,	Logan, -	•		•	-	-	1882-83
E. M. HATTON, · · ·			-	-			1883–84
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D. D. BENEDICT, M. D.	Norwalk,		-	•	•	•	1885-86
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Perr	nanent Treas	urer.					
CHAS. HUSTON,	Columbus,	-	-	-	-		1879-88
Ass	istant Secret	aries.					
E. A. Schellentrager,	Cleveland,	-	-	-		-	1882-83
W. J. MARTIN,	Cincinnati,		-		-	•	1883-84
W. M. MELVILLE,			-	-		•	1884-85
CHARLES LUDLOW,	Springfield,		-		•	•	1885-86
C. T. INMAN,				•		-	1886-87
Н. С. Соок,	Columbus,	-			-		1887-88
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OFFICERS OF THE ASSOCIATION,

1887-88.

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President.															
S. E. Allen, -															Akron.
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C. P. RENDIGS,		*			-										Cincinnati.
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W. Simonson,		•		•		•		•		-		•		•	Cincinnati.
J. I. Beck,	•		•		•		•		•		•		•		Springfield.
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J. A. Nipgen,	-		•		-		•		-		•		-		Chillicothe.
CHAS. HUSTON,		•		•		-		•		•		•		•	Columbus.
J. H. Wанмноги	۲,		•		•		•		-		•		•		- Delphos.
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E. GOODMAN,															Cincinnati.
H. C. Cook,											_				Columbus.
F. T. Bower,										-					Toledo.
J. C. Bolger,			_	٠											- Salem.
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J. D. WELLS, - G. L. HECHLER, C. F. HALL, - M. H. MCCLAIN, D. R. ARNOLD, H. C. COOK, C. T. P. FENNEL,			Comn	- nitte -	- - e or	n E:	k hil			-	·	-	Cincinnati. Cleveland. Youngstown. Galion. Sandusky. Columbus. Cincinnati.

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COMMITTEE ON COUNTY CORRESPONDENCE.

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COUNTY.	NAME.	CITY.	COUNTY.	NAME.	CITY.
Adams Allen Ashland Ashtabula Athens	W. T. Peyton H. Bracelin W. L. Rhoads A. K. Hawley E. R. Lash	Bluffton. Ashland. Jefferson.	Licking Logan Lorain Lucas Madison	F. A. Collins, F. S. Case H. J. Eady F. T. Bower Q. Bradley	Newark. Bellefontaine Elyria. Toledo. West Jeffer-
Auglaize Belmont Brown Butler Carroll Champaign Clarke Clermont	J. L. Hoffman	Morristown. Fayetteville. Hamilton. Canton (StarkCo.) Urbana.	Mahoning Marion Medina Meigs Mercer Miami Monroe Montgomery Morgon	C. F. Hall E. C. Walt W. H. Albro A. W. Seebohm John Bevan C. W. Toby J. W. McKimmie. J. G. Spengler John Alexander	son. Youngstown. Marion. Medina. Pomeroy. Mendon. Troy. Clarington. Dayton. McConnells- ville.
Columbiana. Coshocton Crawford Cuyahoga Drake Defince	J. C. Bolger	Versailles.	Morrow Muskingum. Noble Ottawa Paulding Perry	J. L. Swingle E. M. Hatton J. T. Dew E. C. Payne N. G. Woodward. P. S. Taggart	Mt. Gilead. Zanesville. Summerfield. Port Clinton. Defiance.' New Lexing- ton
Delaware Erie Fairfield Fayette	F. J. R. Pfiffner W. M. Melville E. B. White H. Boyer	Delaware. Sandusky. Lancaster. Washington C. H.	Pickaway Pike Portage Preble	S. B. Evans H. Adams H. Waterman J. E. Davis	Circleville. Waverley. Ravenna. West Alex- ander.
Franklin Fulton Gallia Geauga Green Guernsey Hamilton Hancock Hardin Harrison		Wauseon. Gallipolis. Jefferson (Ashta- Xenia. [bulaCo.) Cambridge. Cincinnati. Findlay.	Putnam Richland Ross Sandusky Scioto Seneca Shelby Stark Summit Trumbull	W. W. Kelley M. V. B. Finfrock. W. H. Howson E. S. Thomas E. Reed E. B. Hubbard C. Amann L. Sollman C. T. Inman F. M. Woods	Ottawa. Mansfield. Chilhcothe. Fremont. Portsmouth. Tiffin. Sidney. Canton. Akron. Warren.
Henry Highland Hocking	F. H. Voigt R. L. Seybert F. Harrington	Holgate. Hillsboro. Logan.	Tuscarawas. Union Van Wert	H. S. Francis J. W. Field L. F. Gacken-	Uhrichsville. Marysville. Van Wert.
Holmes Huron Jackson Jefferson Knox Lake	J. J. Strome M. Patrick W. F. Hale, M.D. Thos. Johnson P. A. Baker W. M. Werner T. C. Davis	Steubenville. Mt. Vernon. Painesville.	Vinton Warren Washington. Wayne Williams Wood	H. Reid W. H. Styer J. R. Sturges W. M. Denman A. R. Champney.	Hamden Junc Lebanon. Marietta. Dalton. West Unity. Perrysburg. Upper San- dusky.

MEMBERS

-OF THE-

OHIO BOARD OF PHARMACY

APPOINTED BY HIS EXCELLENCY,

THE GOVERNOR OF OHIO.

W. R. OGIER,	-	-		•		Columbus,	•	-	Term expires	1892
E. M. HATTON,		-	-		-	Zanesville,			"	1891
F. T. Bower,	-		-	-		Toledo,	-		"	1890
John Weyer,			-		-	Cincinnati,			"	1889
J. A. NIPGEN,			-	-		Chillicothe,			**	1888

OFFICERS.

E. M. HATTON, President.

F. T. BOWER, Vice President.

J. A. NIPGEN, Secretary and Treasurer.

The regular meetings of this board are held in-

CINCINNATI, the second Monday of January.

COLUMBUS, the second Monday of May.

CLEVELAND, the second Monday of October.

DELEGATES.

Delegates to the American Pharmaceutical Association,

To be held in Cincinnati, O., September 5th, 6th, 7th and 8th, 1887.

JOHN GRETHER, Akron.

M. V. B. FINFROCK, Mansfield.

W. M. MELVILLE, Lima.

THEO. TROUPE, Springfield.

J. C. BOLGER, Salem.

Alternates.

H. BOYER, Washington, C. H.

T. D. McFARLAND, Canton.

J. H. GUTHRIE, Conneaut.

S. W. McKeown, Youngstown.

M. A. BURKHARDT, Dayton.

Delegates to National Wholesale Druggists' Association.

N. ASHLEY LLOYD, Cincinnati.

. DANIEL MYERS, Cleveland.

G. B. KAUFMAN, Columbus.

E. SACHS, Dayton.

W. J. M. GORDON, Cincinnati.

NINTH ANNUAL MEETING

OF THE

OHIO STATE PHARMACEUTICAL ASSOCIATION.

FIRST SESSION. Wednesday morning, June 8, 1887.

The ninth annual meeting of the Ohio State Pharmaceutical Association was held at Akron, O., in the City Council Chamber, and called to order by President Coblentz at 11 A.M. On motion the roll call and reading of the minutes were dispensed with.

G. W. Voss, Chairman of Executive Committee, read the names of fifty-nine applicants for membership.

On motion, the Executive Committe was ordered to post the names of the applicants in some convenient place for inspection by the members, and that the candidates be ballotted for at afternoon session.

The Vice President, C. N. Nye, of Canton, being called to the chair, President Coblentz read his address.

PRESIDENT'S ADDRESS.

To the Members of the Ohio State Pharmaceutical Association:

Another year since our eighth annual meeting has elapsed, bringing us again together from our accustomed posts of duty, not only to renew old friendships with pleasure and recreation, but to exchange ideas of both scientific and trade interests. We must come willingly prepared to impart, as well as to receive information, striving to promote true pharmaceutical progress and the welfare of our Association.

In this particular I cannot urge too strongly upon your attendance and close attention to the reading of papers, and let every member come forward and participate in the discussions; these, although occupying a very little time, form the most valuable and instructive part of our meetings. After this is over you will find ample opportunity for the full enjoyment of the programme offered by our hosts. Our membership ranks among the first in size compared to our sister associations, and I do not think stands in the rear in ability; but the interest and value of its meetings

lays entirely with you. Our increase in membership is a singular one. According to our Secretary's last report, up to the present meeting we now have a total of 910 members, with a total loss of 91 from deaths, resignations and dropped from roll, which I consider a very satisfactory showing after an existence of eight years. The place of meeting and probably attractions may account for the irregular increase of members. Starting in Columbus in 1879 with total of 45.

Members	elected	in	1880,	at	Dayton147
"	"	"	1881,	"	Toledo142
64	"				Zanesville154
. 44					Cleveland126
**	"	"	1884,	"	Cincinnati234
44	"	64	1885,	"	Sandusky 77
44	44	66	1886.	"	Springfield

Gentlemen, we must not allow this decrease to continue, as the older we become, the greater the loss. We want members in every town, large and small, who will attend and lend their assistance; then we will find a lessening of the disposition toward ill-feeling, and the tendency among the profession to cut prices, thus lowering the business to the level of common tradesmen. We must not allow our interest to lax, we must make our meetings as interesting and entertaining as possible, take hold of our new members and push them forward in order that they may not help but take an interest. In addition I would urge upon every member to provide himself with blank applications and take pride in securing new members whenever possible. The field is large and we represent but a portion of the pharmacists of Ohio. It is a duty that every registered pharmacist owes to himself and his calling to become a member of the State Association. It is not for the benefit and advancement of a few; it is making earnest efforts to elevate and protect your profession, and its great work has just begun. Inroads are being attempted upon every side; we must be upon the alert, and by our combined efforts protect legitimate business. The objects of our Association are for the elevation of the practice of Pharmacy by the dissemination of knowledge and maintenance of its dignity, interchange of ideas upon practical subjects, sustaining our Board of Pharmacy, maintenance of fraternal relations with our sister organizations, securing legislation relative to the proper interests of Pharmacy and the promotion of sociability and harmony among our city and town pharmacists.

Our membership has been diminished by the death of seven of our co-laborers who have been called from us to pass into that mysterious land beyond. I refer to E. Bixel, of Cleveland; E. Kistner, A. Wagner, H. F. Reum, of Cincinnati; J. F. Uthe, of North Amherst, S. J. Nicolay, of Hamilton, and P. F. Sherrick, of Delphos.

We also sustain a slight loss by resignations and members dropped from roll.

An Association the size of ours cannot be conducted without financial support. Its financial prosperity is of first importance and in view of the delinquence and loss of members, we should feel it our duty to remit promptly upon receipt of

notice of our annual dues, which certainly are small enough, and their neglect on this account would certainly be inexcusable. If you are unable to attend our meetings you should be willing to encourage the good work now progressing by prompt payment of your \$1.00 per year. In the work of collection of dues our efficient Treasurer has labored faithfully with but partial success, and to assist him in the performance of this unpleasant task, I would recommend (in accordance with the suggestions of our Secretary and Treasurer), that the collection of dues be placed in the hands of some bank selected by the Treasurer, at Columbus. This will not incur more expense than that of printing and sending out one or more notices to each member, who then is liable to lay it aside to be forgotten.

I would recommend that our Committee on Papers and Queries be also entailed with the duty of that of a Committee on Adulterations and Deteriorations, noting all new sophistications and substitutions of drugs that occur in the open market; also empower them to consult with manufacturers in the name of the Association regarding points of general information, when needed; this to be done not for purpose of exposing those who, by carelessness, accident or design, falsify goods, but to warn our members wherein to be upon their guard against this fast increasing evil. I would also note that information of this nature would add vastly to the practical value and interest of our annual proceedings. If the work would be considered too much for our Committee, let its numbers be increased accordingly.

During the past year the passage and enforcement of the Dow Law has caused much trouble and annoyance, not only to members of our Association, but to Pharmacists throughout the State generally. In Youngstown, Akron, Toledo, Mansfield, various schemes were devised whereby liquor and compounds of it were obtained from several local pharmacists, and then summoned to pay the license and in many cases the penalty. The unfortunate feature of this law is, that it fails to discriminate clearly and leaves many in the doubt. Generally and more especially in the larger cities the pharmacists, have restricted the sale of liquors exclusively to the prescription. Under present conditions it is advisable for pharmacists, except where the amount of liquors sold justified it, to restrict the sale of it entirely, except on prescription. This law casts odium upon the pride of our profession, yet we must bear in mind that the better must suffer with the unprincipled (or whiskey element druggist) of which latter class there are still some to be found.

Of forty-nine States and Territories twenty-seven now have Pharmacy Laws, Colorado and Pennsylvania being the most recent. Pennsylvania, commencing with 1881, has been struggling along until recently it passed both houses and now stands a law. That of Indiana killed by the opposition of a certain class of their own Association.

Through the steady perseverance of our Committee on Legislation, the Bill amending Sections 4410-11 and 12 was passed, now vesting full powers to prosecute and enforce the law in our Board, whom we hope now will go forward and give their attention to its enforcement. The report of our Committee on Pharmacy Laws will embrace this subject more in detail. However, to our workers who have assisted in securing this amendment, and to our champions in the Legislature, our Association

owes a debt of gratitude. I would earnestly request the members to assist our Board in reporting all cases of actual violation of our Laws; however, be well satisfied that they are actually violating the laws before calling the attention of the Board.

The standard of our profession must be elevated and maintained, and to accomplish it we must strengthen and enforce our Pharmacy Laws, and give our due necessary encouragement to our Institutions of Pharmaceutic Education. That a wonderful amount of deficiency and incompetency exists among both applicants for pharmacists and assistants, is evident in the fact of the number of failures before our State Board. Perfection in Pharmacy is impossible, as it is so related to all the natural sciences that a perfect acquaintance with all is rare, yet a good practical experience in all the details with sufficient theoretical foundation, (such that he shall be able to read and criticise a prescription or pharmaceutical preparation accurately and give his reasons for preparing it one particular way or another,) is such as our Board requires, and must have its evidence, thus producing a better class of druggists and preventing incompetent persons from entering the trade. Yet we must not complain that our law does not place the management of the duties of our profession at once in the hands of the efficient; we must make the best of it and let time ferret out those incompetent ones who took refuge, by registering under the law. I hope our Board will now accomplish much toward suppressing many stores which have been carried on in open violation to our law. The Connecticut Pharmaceutical Association has deposited on interest a permanent fund, thus enabling the Association to be run on a sound financial basis. In view of this I would recommend that the Association take from the funds of the Treasurer, whenever found feasible, without detriment to our finances, any amount that might be spared per year and place it in the hands of trustees of a permanent fund. This at first may seem impossible, but I think it will not be so difficult if our Treasurer is assisted in the collection of Also in addition to the above I would recommend his annual dues. the adoption of the plan of life membership, which, in the Missouri State Association, they have placed at \$10.00. I have no doubt that many of our members would gladly avail themselves of this plan to avoid ever being in arrears for dues.

In many sections of our State the local pharmacists have been annoyed by the drug pirate who is still to be found, without honor and standing, a nuisance to the public and a curse to legitimate trade. I would suggest to local druggists, in places where size admits, again, the time-worn subject of the formation of local organizations, whenever and wherever possible, for your mutual protection. Our field is fast becoming more and more limited. Many pharmaceutic manufacturers are, through extensive advertising and presenting to physicians elegant appearing preparations ready for dispensing, leading to the almost exclusive dispensing of medicines by physicians themselves, especially so in smaller cities. Continuing this way, apprehensions may be entertained as to the future of Pharmacy, its dignity being leveled by the supplanting of scientific investigation by a submission to quackery.

There is another feature I would incidentally mention; that is, that many of the registered pharmacists and assistants fail to display their Certificates of Registration;

many from my personal observation have theirs laid away, never to be had or seen, unless searched for, and in some cases lost.

I wish to remind you that in two years steps will be taken for the revision of the United States Pharmacopœia of 1890. This work devolves mainly upon our Committee, still I request the assistance of our members when our Committee calls upon them for any information, whether statistical or practical. Should they desire any radical changes, these should be brought up and fully discussed at our next meeting. This work is one of the highest and most honorable duties devolving upon the scientific abilities of our Association, hence we must soon condense our practical views upon this subject.

At the Providence meeting of the American Pharmaceutical Association, it was decided to increase their standing committee on Unofficial Formulary, by the selection of one member from each State Association. In accordance with this I was requested to appoint some Ohio member. I selected our Secretary, Mr. Hopp, whose appointment I am certain will meet your approval. This work, embracing the entire country in this manner, will undoubtedly result in great practical value to us all.

I beg leave to suggest that the Nominating Committee confine their nominations, especially that of President, First Vice President, to members living either in the city or counties adjoining the place of meeting. I believe it has been customary to select from our Association such members as belonged to the American Pharmaceutical Association, as delegates to its meetings. I would, however, recommend that in accordance with some of our sister Associations, that we hereafter appoint as delegates from our numbers those who are not members of the American Pharmaceutical Association, for in this action they are virtually elected members, being then only requested to sign the constitution and by-laws and pay the usual membership fees and annual dues.

In accordance with a suggestion made by Secretary Holmes, of the New York Pharmaceutical Association, all State Secretaries attending the meeting of the American Pharmaceutical Association, at Providence, R. I., last fall held an informal conference for the purpose of bringing up the subject of a yearly conference of State Secretaries, in connection with the American Pharmaceutical Association, for the purpose of discussing the best ways and means for conducting the business of State meetings and considering the condition of matters in the various States with a view to a move of general understanding of the affairs of each State in its relation to the general welfare of the whole. Such meetings would be of much benefit to the Secretaries individually in better fitting them to perform the duties of their offices. Also that our Association would work in accordance with, and assist one another in the accomplishment of many objects long striven for. The following resolution was adopted:

"Resolved, That a committee of three, consisting of Secretaries Holmes, Colcord, and Upson, be appointed to confer with the Secretaries now present as to the desirability of such a departure, and also to present the proposed plan to the Presidents of all State Associations, soliciting their opinion and co-operation."

I would therefore recommend to the consideration of this Association the advisability of a favorable action upon this important subject, and hope you will lend it your hearty support. As each Association will necessarily bear the traveling expenses of their Secretary, I will leave this for your future consideration.

During last March, P. H. Bruck's time expiring as member of our Pharmacy Board, and it being necessary to appoint another member to fill the vacancy caused by the resignation of Chas. Huston, as candidate on this said Board, I appointed Mr. W. R. Ogier, of Columbus, to fill the vacancy. I hope the acceptance of Mr. Huston's resignation and the appointment of Mr. Ogier, will meet the approval of the Association.

I would suggest that our Paper and Query Committee and Secretary be not burdened with the duty of furnishing copies of all the papers to such few representatives of the iournals as might be present at the meeting, since it is doing great injustice to all in thus allowing a few such privileges. Hence, let our papers go direct to our Proceedings, which should be out as soon as possible, and then all may have equal opportunities of selecting and publishing such as they may desire. Our Proceedings, also, would then not be so old and familiar, and would be preserved instead of consigned to the waste basket.

I recommend an alteration to Article 7, Chapter 11, under our By-Laws. It reads thus:

"Pharmacists, chemists, and other scientific men, who are, or have been active members of this Association, and have removed from the State of Ohio, may be elected to associate membership. He shall not be required to contribute to the funds of the Association, etc."

The alteration, as I suggest would be to read thus: Pharmacists and chemists and other scientific men, who are, or have been active members of this Association, and have removed from the State of Ohio, shall be regarded as an associate of this Association. This would relieve our officers from any annoyance regarding collection of dues at once, instead of deferring it to an annual meeting for his election as an associate member.

I take pleasure in noting the receipt of a cordial invitation to attend the Minnesota Association meeting, which, unforrunately, I was unable to attend. It would be a pleasant feature if our officers could attend the meetings of sister Associations. However, the annual conference of State Secretaries, should it be adopted, will fully provide for this.

An idea was suggested to me lately by our Secretary, which I think, if carried out, will undoubtedly serve as a new and interesting departure. An exhibition of different pharmaceutical preparations, both pharmacopæia and miscellaneous, prepared by different ones from among our members with estimates of their cost attached, will be of special interest and benefit to us all. This will also aid in the dissemination of new ideas. There are many new and valuable points that can be brought out and exhibited in this way, that will be practical and attractive, and consequently increase the interest and attendance at our meetings. I think it will be assisting a step in the right direction in that of encouraging our pharmacists in the manufacture of their own pharmaceutical preparations. One of the last admonish-

ments our students receive before leaving our Pharmacy Colleges is, "rely upon your own abilities and manufacture your own pharmaceuticals." The objects of pharmaceutic education are mainly for this very purpose. Yes, we should encourage this point as far as is in our power, that our coming generation may be pharmacists in every sense, and not mere tradesmen. I therefore beg leave to recommend the appointment of a committee of five, from different sections of the State, whose duty it shall be to secure exhibits of Pharmacopæia and miscellaneous preparations, (with their cost of manufacture attached.) from among our members, and that such preparations shall be of their own manufacture. I would also suggest, if the above is adopted, that those exhibits be placed in the meeting hall, thus removing the difficulty of inducing members to attend the meetings while exhibits, as we now have them, are in progress.

From our several committees I expect good reports. Among these, our first report from the Committee on Progress of Pharmacy, which undoubtedly will add much to the value and interest of our proceedings. Our Paper and Query Committee have labored faithfully in the performance of their ever increasing duty.

I observe the offer of a third prize for a meritorious paper. Stimulants like this should call forth many and valuable articles. The thanks of the Association are due Mr. Burton, for this offer; also to Messrs. Benton, Myers & Co. for the continuance of their offer.

Our Permanent Secretary deserves the thanks of the Association for the prompt and careful administration of its intrusted affairs, devoting time and labor which most of us would certainly feel unwilling to devote.

The local Secretary has worked hard to make the meeting successful and entertaining, and no doubt will be eminently successful.

Now, fellow members and friends, I will soon relinquish the trust which one year ago you kindly placed in my hands. To be chosen as the presiding officer of this, one of the largest State Associations, I deem an honor which I could never have expected. For all this I thank you and our brother officers for your kind assistance and encouragement which has made the discharge of my official duties agreeable and pleasant, and shall always be a source of pleasant recollections. During the remaining few days of my official duties I request you to kindly forbear with me in any errors of judgment I may commit, as they certainly will not be intentional. While hoping that the past success and prosperity of this Association is but the beginning of a still greater future, I bid you farewell.

On motion, Vice President Nye appointed Messrs. J. Weyer, Cincinnati; J. H. Case, Akron, and M. D. Fulton, of Bucyrus, committee to report on the President's address.

The Secretary read his report.

SECRETARY'S REPORT.

Mr. President and Members of the Ohio State Pharmuceutical Association:

Gentlemen—After adjournment last year, a synopsis of our meeting was sent to the various Pharmaceutical journals. Newly elected members were notified and certificates of membership issued to each one. The publication of the report was somewhat delayed by the preparing and adding to the report, of an alphabetical list of members.

The County Correspondence Committee did their work well and promptly. The reports were distributed the same as the year previous. A copy was sent tolthe President and Secretary of each State Association and to each Pharmaceutical journal. Complimentary copies were received from each Association.

The usual annual notice was sent out about two weeks before the meeting.

Respectully submitted,

LEWIS C. HOPP,

AKRON, June 8, 1887.

Secretary.

On motion, report was accepted.

The Secretary read the Treasurer's report.

TREASURER'S REPORT.

To the Officers and Members of the Ohio State Pharmaceutical Association:

GENTLEMEN: Your Treasurer submits the following report for the past year:

1886.	RECEIPTS.		
June 1.	To balance cash on hand	\$ 19 34	
July 1.	To cash received from Exec. Com. (new members)	283 50	
July 1.	To cash received from Exec. Com. (certificate)	50	
July 1.	To cash received from Executive Committee (dues).	180 00	
July 1.	To cash received for certificates	2 00	
1887.			
June 2.	To cash for dues to date	524 00	
			•
	•		\$ 1,000 34
1886.	EXPENDITURES.		\$ 1,009 34
1886. Junė 9.	EXPENDITURES. By bill, A. G. Black & Co		\$ 1,009 34
_		\$ 50 00	\$ 1,009 34
June 9.	By bill, A. G. Black & Co	\$ 50 00	\$ 1,009 34
June 9. June 9.	By bill, A. G. Black & Co	\$ 50 00 6 40 7 70	\$ 1,009 34
June 9. June 9. June 9.	By bill, A. G. Black & Co	\$ 50 00 6 40 7 70 35 00	\$ 1,009 34
June 9. June 9. June 9. June 15.	By bill, A. G. Black & Co	\$ 50 00 6 40 7 70 35 00	\$ 1,009 34

July 1.	By bill, V.Coblentz	8	87
July 8.	By bill, L. C. Hopp	200	´00
July 8.	By bill, A. A. Clark	20	25
July 8.	By bill, Pomerene, Davies & Hibbard	59	15
July 8.	By bill, Charles Huston	4	25
Oct. 11.	By blll, Nitschke Brothers	3	75
Oct. 26.	By bill, Dr. D. Barringer	2	00
Nov.30.	By bill, Leader Printing Co	335	45
Nov. 30.	By bill, L. C. Hopp, Secretary		34
1887.	•		
Feb'y 2.	By bill, Joseph Feil	16	50
March 8.	By Bill, Nitschke Brothers		75
May 24.	By bill, Nitschke Brothers	2	75 — \$ 883 44
	Balance on hand		\$125 90

Respectfully submitted,

CHARLES HUSTON,

COLUMBUS, Ohio, June 3, 1887.

Treasurer.

On motion of Mr. Nye the report was referred to an auditing committee of three. The President appointed Messrs. G. L. Hechler, M. D. Fulton and J. I. Beck.

Geo. W. Voss, Chairman of Executive Committee, read their report.

EXECUTIVE COMMITTEE REPORT.

To the Officers and Members of the Ohio State Pharmaceutical Association:

GENTLEMEN: Your Executive Committee beg leave to submit to you their report for the past year. Through the 'kindness of our Secretary, we were relieved from the duty of publishing our annual transactions. He had the work executed in a very creditable manner and it presents a neat appearance. The Treasurer's report shows a larger surplus on hand this year than we had last, which is certainly very gratifying and proves the financial affairs of the Association to be in a prosperous condition.

The efforts of our local Secretary and the Special Committee appointed by him, have enabled us this year to add an exhibit to the attractions of the convention that reflects great credit upon the gentlemen having it in charge.

The Pharmacy law, as amended since our last meeting, empowers the State Board of Pharmacy to bring suit through the county prosecuting attorney against any person infringing it.

We would suggest that our meetings in the future commence no later than Tuesday, as the members remaining to enjoy the entertainment which usually follows the day of our adjournment, will then be spared the annoyance and inconvenience of returning home on Sunday.

Eighty-one new members were added to the roll at our last meeting, a fact very pleasant to contemplate, as it not only shows that our labors have the approval of the profession of the State, but also proves that there is a desire among pharmacists to join in the advancement of scientific pharmaceutical knowledge and the elevation of the profession.

Again we are called upon to mourn the loss of some of our members. Since our last meeting seven have passed to their eternal home, highly honored and respected, in their several places of abode, their loss is greatly felt; but the influence of their example still lives to point the way to honor and esteem, and urge us on to renewed efforts in the work we are called upon to perform. That when the hour of our departure shall arrive, we also may be found ready and worthy to receive that blessed commendation, "Well done, thou good and faithful servant."

Respectfully submitted,

GEO. W. VOSS, D. R. ARNOLD, THEO. TROUPE.

AKRON, O., June 8, 1887.

EDWARD CHRISTIAN KISTNER, of Cincinnati, O.,

Was born in Hanover, Germany, August 26, 1844. He came to this country with his parents when eleven years old. They settled in New Bremen, Ohio. When sixteen years old he entered the drug business as clerk, in the employ first of Mr. Carl Backhaus, of Cincinnati, and then with his father. At the age of twenty-two he commenced business for himself. This he carried on at several localities until his death, which occurred September 22, 1886, age, forty-two.

Deceased was a member of the A. O. U. W. and the Turner Verein. A widow and one son is left to mourn his loss. He joined the Association in 1884.

JOHN FREDERICK UTHE, of North Amherst, O.,

Was born in Cleveland, O., August 21, 1846. He was raised in North Amherst. In 1863 he entered the employ of W. F. Wooster, druggist of Elyria, Ohio, and remained until 1865, when he returned to North Amherst and commenced the study of medicine. In 1872 he started in the drug business in that place, and two years after he entered into a co-partnership with Mr. Clements. He remained in the firm until 1875, when he removed to Cleveland, returned again in 1877, and engaged in the drug business. In 1885 Mr. E. Nichols was admitted into partnership. He continued in business until his death November 10, 1886. He was married in 1868. He was a thorough and conscientious business man, beloved by the community who honored him with several public positions.

He was a member of the American Legion of Honor and Knights of Pythias. He became a member of the Ohio State Pharmaceutical Association in 1884.

AUGUST WAGNER, of Cincinnati, O.,

Was born in Hanover, Germany, January 6, 1818. He left high school when fourteen years of age and served an apprenticeship of five years in Noerton bei Goettingen. From there he went to Hamburg, and in 1842 sailed for America. He first came to New Bremen, Ohio, and opened a pharmacy. After remaining there one and a half years he went to Cincinnati, and there opened a pharmacy. In 1866 he entered the wholesale firm of Vogeler, Wagner & Co., but in 1881 withdrew and opened a retail pharmacy, which he conducted until the day of his death, which occurred December 13, 1886. During the number of years of his life spent in this city, he, by his natural urbanity, uniform courtesy and gentlemanly deportment, gained hosts of friends, and all who became acquainted with him respected and loved him for his many good qualities of head and heart. He leaves a widow, two sons and three daughters. He joined the Ohio State Pharmaceutical Association in 1882.

SILAS J. NICOLAY, M.D., of Hamilton, O.,

Was born in Somerset county, Pennsylvania, February 8, 1847. He attended school until fourteen years old, and then served an apprenticeship of three years with a silversmith. In 1864 he entered the 107 Regiment of Pennsylvania Veteran Volunteers, and served until the close of the war. While in the service his regiment participated in many serious engagements. He came to Ohio in 1865; attended school at Lebanon, and then taught in Butler and Hamilton counties. He afterwards studied medicine and graduated at the Medical College of Ohio, in 1874. He practiced in Illinois until 1880, when he removed to Hamilton, Ohio, and purchased a drug store, which he continued to carry on until his death May 11, 1887. He leaves a wife and one child. He was a Mason and Odd Fellow and a member of the G. A. R. He became a member of the Ohio State Pharmaceutical Association in 1882.

H. F. REUM,

Born in Hamburg, Germany, January 13, 1837, his parents removing shortly after to Kassel, where he received his earlier education and studied chemistry under the noted Prof. Schwartzkopf. Left Germany for America in 1856, coming to Cincinnati; continued his studies under the late lamented Prof. Fennel, and after, under Mr. Karrman, of this city. In 1860 he purchased the pharmacy corner John and Clark, and soon after removed I to corner of Fifth and Broadway, where he remained as one one of the leading pharmacists of this city. He was President of the Cincinnati College of Pharmacy in 1879. Died May 31, 1887. He joined the Ohio State Pharmaceutical Association in 1881.

EMIL BIXEL, of Cleveland, O.,

Died September, 1886. He became a member of the Ohio State Pharmaceutical Association in 1880.

P. F. SHERRICK, of Delphos, O.,

Died the same year he became a member of the Association, in 1886.

On motion the report was accepted.

The Secretary read the report of the Committee on Trade Interest.

COMMITTEE ON TRADE INTERESTS.

To the Officers and members of the Association:

Your Committee would report that the past year has not been an eventful one to the drug trade. Cutting in prices has been found to be unremunerative to those who hoped by that means to capture their neighbor's patrons and has been almost entirely abandoned throughout the State.

The beneficial effects of the Pharmacy Law are being felt, and as it becomes better understood and its provisions more fully enforced, we think it will prove as great an advantage to the trade as was expected by its friends.

The rapid multiplication of patent medicine is becoming a serious annoyance to the trade, as the various schemes of advertising induce druggists to lay in a supply to meet the expected demand, which frequently never comes, and the result is shelves loaded with unsalable stock; and the same may be said in regard to many of the various remedies of the manufacturing chemist introduced to the notice of the physician who would like to try them, and recommends them to their druggist, who lays in a supply to his frequent sorrow and regret.

The liquor law known as the Dow. Law, in its bearing on the drug trade has been the cause of some difficulty. Liquors used medicinally are a part of the druggist's business, and while your committee have no sympathy for those who turn their pharmacies into saloons, we think the restriction on its sale as medicine should not be limited to the prescription of a physician. This inconvenience is felt more severely in our smaller towns than in the cities, as many physicians are not in the habit of writing their prescriptions, simply telling their patients to send to the apothecaries for such remedies as they do not carry with them, and neither do many of our patrons think of applying to a physician for liquor any more than they do for camphor, peppermint or paregoric. The writer has been compelled more than once to send a customer to the neighboring saloon for liquor when he had been directed by his physician to go to the drug store for it, but failed to give his written 'order. Your committee are aware that it is a difficult subject to handle, but do not think it was the intention of our legislators to do any one an injustice, and think the law might be so amended as to allow the druggist to be the judge of its legitimate use, either by requiring the name of the buyer to be registered as in the purchase of poison, or the customer to sign a certificate that it is not to be used as a beverage.

The absence of speculation and the unusual steadiness of prices have enabled druggists to make a fair and legitimate profit, and the dullness of trade of the earlier portion of the year has been succeeded by a decided increase in volume of sales in

all branches of the business, so that your committee think that the year has been a satisfactory one to the trade in general.

Respectfully submitted.

C. B. Johnson, Middletown,

C. W. TOBEY, Troy,

C. A. SMITH, Springfield,

On motion, report was accepted.

Mr. Feil, Chairman of Committee on Papers and Queries read their report.

COMMITTEE ON PAPERS AND QUERIES.

Your committee prepared a list of queries and headed it with a special appeal for notes and list of preparations of the U. S. P., '80—rarely or never called for. This was given a prominent place in the proceedings by the Secretary, and hence it was deemed necessary to send out only one copy to each member additional, which was done in January. The committee also desire to call attention to the kindness of Messrs. Benton, Myers & Co., of Cleveland, in repeating their offer of last year of two prizes for answers to queries, namely: a Troemner Balance, list price, \$25, and a B. M. & Co. Suppository Mould, valued at \$8; also the kindness of Mr. G. F. Burton, of Springfield, Ohio, in offering as third prize a Burton Percolating and Filtering Apparatus, these prizes to be awarded by a committee appointed by the President.

The replies to the queries have not been so numerous as they were the past two years, but the quality of work has been of unusual excellence, and in this respect the committee feel well repaid for their labors.

The answers to the notes and special appeal for queries Nos. 1, 2 and 3, have been ew, and at least in number not satisfactory.

JOSEPH FEIL, W. SIMONSON, H. C. COOK.

On motion, report was accepted.

Mr. Fulton read report of Committee on Pharmacy Laws.

COMMITTEE ON PHARMACY LAWS.

Mr. President and Gentlemen:

Your Committee on Pharmacy Laws ound little work to perform during the past winter. There being no antagonistic legislation introduced towards our present law, hence our report will be brief.

You are aware of the passage of the amendment making the Pharmacy Board prosecutors of any reported violations of the law. With this addition we have the best law in the country, and your committee are of opinion that further amendments

at this time would not be politic. We advise the passage of a law excusing pharmacists from jury duty, and would urge each and every member to interest himself in the passage of the bill when it comes up the coming winter.

WM. M. MELVILLE, J. A. NIPGEN, CHAS. HUSTON, F. M. HEATH, M. D. FULTON.

On motion, report was accepted.

Mr. John Weyer read report of Ohio Board of Pharmacy.

OHIO BOARD OF PHARMACY REPORT.

In accordance with statutory provision the Ohio Board of Pharmacy, through its Secretary, submits its annual report for the year ending March 31, 1887, to the Ohio State Pharmaceutical Association.

During the year ending April I, 1887, the Board held six meetings for the examination of applicants for registration, as follows: Columbus, May 10, 1886; Toledo, August 3, 1886; Cleveland, October 11, 1886; Columbus, November 23, 1886; Cincinnati, January 10, 1887; Columbus, March 1, 1887.

At these examinations two hundred and twenty-three appeared to register as Pharmacists, and one hundred and thirty-six as Assistant Pharmacists. Of these applicants one hundred and two received certificates of competency as Pharmacists, and forty-eight as Assistant Pharmacists, being 46 per cent. of the former, and 35½ per cent. of the latter.

Your attention has heretofore been called to the small percentage of successful applicants at these examinations, and the marked decrease in the ratio during the past year is no flattering comment upon the training and education of these aspirants, when you consider that the aim has been to make the test a practical rather than a theoretical one.

There must be a radical change in the views of the druggists of Ohio concerning the kind of material out of which they assist in manufacturing the Pharmacists of the future. The majority of the examination papers, even of those which show a fair degree of proficiency in Pharmaceutical skill, exhibit a lamentable ignorance of the elementary principles of a common school education. The idea appears to be, not "how high a degree of excellence can I attain in this my chosen line of work, but how 'little can I know to squeeze through the examinations of the Board of Pharmacy, and get a certificale to PRACTICE upon the people."

The "salts and senna" age in Pharmacy has gone by, and it has come to be a many sided science, the foundation for a fair comprehension of which must be laid in a mind that has had some previous training in habits of study and observation; and just so long as ignorant, uneducated boys are taken into drug stores as apprentices, and pushed forward as assistants as early as they learn the names and location

of common remedies in that one store, just so long will it be the duty of the Ohio Board of Pharmacy to weed out the incompetent young men who are crowding forward to secure legal recognition of their excessive ignorance.

The term of service of Mr. P. H. Bruck having expired April 1, 1887, Governor Foraker appointed Mr. W. R. Ogier, of Columbus, his successor. Mr. Bruck was a most valuable member of the Board, and retired with the highest esteem of his colleagues, to assume the duties of an important public office at the call of his fellow citizens.

The amendments to the Pharmacy Law enacted during the recent session of the Legislature, were valuable and timely, and will doubtless be brought to your attention by the Committee on Pharmacy Laws.

The board met for reorganization on April 1, 1887, and elected E. M. Hatton, President; F. T. Bower, Vice President, and J. A. Nipgen, Secretary and Treasurer.

The following finacial exhibit will show the receipts and expenditures for the year, and the condition of the treasury at its close:

RECEIPTS.

Cash on hand April 1, 1886,	•	-		-				\$6,128 67
Cash received to April 1, 1887,	•		•		•		•	402 00
Total,	•	•		•		•		\$6,530 67
EXPENDI	TURE	s.						
May 11-Zanesville Courier, printing quest	tions,		:		-		•	30 50
E. G. Roberts, rent of office,		-		-		-		48 00-
Senter & Lerch, mailing tubes,	-		-		•			1 40
Krebs Lith. Co., certificates,	•	•		-		-		18 00
J. H. Serco, printing, -	-		-		•		•	I 75
Bow & Beggs, Linoleum,	•	-		-		-		20 48
J. H. Trange, blank book,	-	•	-		-		-	5 75
Hann & Adair, printing,				-		-		5 35
Com. College, rent for examinat	ion,		-		-		•	6 00 -
Oct. 11-E. G. Roberts, rent of office,	•	-		-		•		60 00
A. C. Bertin & Co., printing,	-		-		-		•	56 35
1887.								
January-Rent of hall for examination in 6	Cincin	nati,		-		-		20 00
A. C. Bertin & Co., printing,	-		-				-	34 75
Feb'y - L. T. Neal, legal opinion,	-	-		-		-		50 00
E. G. Roberts, rent of office,	-		-		-		-	72 00
Total,	-•		•			-		\$430 33.

	OHIO S	TATE PHA	ARM.	ACE	CUT.	ICA	L A	1880	CIA	TIO	N.			25
F	. T. Bower,	per diem	and	exp	ense	es,							183	65
Jo	hn Weyer,		•				•		•		•		190	81
E	dgar M. H	atton,		•		•		-				·	219	70
J.	A. Nipgen	•	-						-		•		122	•
· P	H. Bruck	, salary fo	or 15	mo	nths	, \$	625.	.00;	do	ne	cessa	ry		,
	expenses,			-		•		•		•		•	759	33
Total,		•	-								-		\$1,905	87
Balance on	hand April	1, 1887,		•		-		•		-			4 624	•
			Re	spe	ctfu	lly	subi	mitte	ed,					
								JOI	ΗN	A.	NIE	GE	N,	
				-			•	-					Secretary	
On mot	tion, repo	rt was a	ccep	ted	l.								•	

President Coblentz appointed the following Committee on Nomination of Officers for the ensuing year: Thomas Johnson, Steubenville; John Weyer, Cincinnati; A. Warner, Akron; J. H. Wahmhoff, Delphos; A. Hitchman, Bettsville; Phil Lehr, Cleveland; Fred Berg, Upper Sandusky; Prof. C. T. P. Fennel, Cincinnati, and W. H. Albro, Medina.

Mr. Voss read the names of nine applicants for membership. On motion, adjourned until 2 P.M.

SECOND SESSION. Wednesday afternoon, January 8, 1887.

On motion, the minutes of the morning session, as read by the Secretary, were approved.

The President appointed Messrs. N. Rosewater, Cleveland; John Weyer, Cincinnati; Joseph I. Beck, Springfield, Committee on Prizes. The Secretary read report of Committee on Unofficinal Formulary.

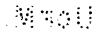
NOTES ON UNOFFICINAL FORMULAS.

The Committee on National Formulary of Unofficinal Preparations, appointed under the auspices of the American Pharmaceutical Association, give a preliminary draft as printed in the last proceedings, comprising of 407 formulas, 414 titles; of this number, 142 are Elixirs, 16 Emulsions, 10 Fluid Extracts, 10 Liniments, 44 Solutions, 17 Mixtures, 15 Powders and Compounds, 12 Spirits, 35 Syrups, 32 Tinctures, 14 Medicated Wines, including a few formulas for Pills, Pepsins, Oils, Lotions, Glycerites, Plasters, Collodion Compounds and Acids. One hundred and



three formulas, under respective titles, have 259 additional formulas, making the total number 558—the product of the Committee and Pharmaceutical Associations. The multiplicity of formulas and similarity from a chemical and therapeutical standpoint, is apparent, and when the stated revision takes place, the numbers will be lessened in a report to the coming meeting of the American Pharmaceutical Association. The gentlemen of the Committee and their on-laborers deserve the thanks of the Pharmacists of the country for their task in presenting formulas which have sprung into notoriety within a generation—some of merit, many of none; but nevertheless have become popular with the people and physicians through the agencies of designing manufacturers, at the expense of reputable Pharmacy, not only in this country, but abroad. A meeting of the Pharmaceutical Conference was held at Birmingham, England, last August, when a committee on unofficinal formulary was appointed with the object, as termed, "To popularize elegant Pharmacy, in order to put it within the power of every chemist to compete on advantageous terms with many proprietary mixtures and syrups which are so widely advertised."

The National Formulary Committee make the following announcement: "That contributions and criticisms are solicited from members of the profession outside of the Committee, or from those located in states where no representative or member of the Committee resides." Therefore, remarks in regard to a few of the important formulas are in order. One-third being Elixirs, and of the greater importance to Pharmacists, and in which Poly Pharmacy is most apparent. The term, Elixir, as used at present, means a mixture of a pleasant tasting aromatic flavor, in combination with medicines, in order to disguise any disagreeable taste. An objection exists in the multiplicity of these flavors. Pharmacists only need a few reliable formulas for unofficinal flavoring preparations. Three would be quite sufficient, one Aromatic Tincture prepared from spices, one Compound Orange Flavor prepared from fresh orange and lemon peel, coriander, etc., the same as Aromatic Spirit, an excellent flavor containing very little Tannin, and most useful; the third a Fragrant Spirit similar to the one recommended by Prof. Bennington, made from fresh essential oils and Alcohol, being devoid of Tannin, therefore appropriate for preparations containing Iron. The above Tincture or Spirit flavoring to be made into Elixirs, one part to two parts of syrup or syrup and water. An Aromatic Elixir being appropriate where the Tannin from spices may be desirable or not therapeutically objectionable. Being useful combined with astringents, tonics, griping purgatives, carminatives and corrective cordials. As a spice or aromatic Elixir, the Committee authorize Compound Elixir of Taraxacum, and give it as a flavoring for a number of Elixirs. Why dandelion root of no flavor, and wild cherry bark, a weak and unstable flavor compared to strong spices, should be mixed with the latter, cannot be sustained on rational grounds. These should be displaced with coriander seed, and anise added with the amount of cinnamon, and cardamon increased. First making the Aromatic Tincture.



AROMATIC TINCTURE.

Coriander,		-		٠.		-		-		-		240 grs.
Cinnamon,					-		- '		-		-	240 grs.
Cardamon,				-		-		-				180 grs.
Canada Snake	Root	i,			-		-		-		-	120 grs.
Carum, -		-		-		-				•		120 grs.
Anise,	-		-		-		-		-		-	120 grs.
Cloves, -						-		-		-		60 grs.
Nutmegs,	•		-		-		-		-		•	60 grs.
Glycyerhiza, (Russi	an	pee	led a	and (cut,))	-				960 grs.
Diluted Alcoh	ol.		-				-		-		-	16 fld ozs.

Grind substances to No. 40 powder and percolate, adding water (after all of the diluted Alcohol has passed) until 16 ozs. of Aromatic Tincture is received.

AROMATIC ELIXIR.

Aromatic	Tincture,	-	•	-	-	. •	8 fl. ozs.
Syrup,	•	-	-	-			16 fl. ozs.

As stated, the aromatic spirit prepared from the fresh orange and lemon peel, as per No. 314, is the best formula that has yet been offered, suitable for making any kind of medicated Elixir, having no Iron in its compound. Fresh essential oils of orange and lemon are at times difficult to secure. This elixir made from the fresh peel is always satisfactory. The name Aromatic Spirit should be changed to Compound Spirit of Orange, and an Elixir prepared by mixing equal parts of this Compound Spirit, Syrup and water; filter. This Elixir should be titled Compound Elixir o Orange, and the Elixir having the same name, (No. 28) having extracts of Gentian, Wormwood, Buckbean, and other unpleasant tasting drugs, should not have the name of Compound Elixir of Orange, even if it is from the Pharm. term.

The third, Fragrant Spirit, an appropriate name, prepared from fresh essential oils.

FRAGRANT SPIRIT.

Oil of Orange,	-		•	-			6 fluid drachms.
Oil of Rose, -		-			-		20 minims.
Oil Coriander,	-		-	-		-	I fluid drachm.
Oil Bitter Almonds,		-			• .		2 minims.
Oil Cloves,			-	-			2 minims.
Alcohol, as					-		4 fld ozs

Note—One-third, at least, of the oil of orange should be replaced by the oil of lemon, the flavor of the latter being always acceptable, and the cloves, by cinnamon, or by adding the last.

ELIXIR FRAGRANT.

Fragrant Spirit,		-		-		-		-		2	fld drachm	ıs.
Alcohol,	-		•		-		•		•	4	fld ozs.	
Syrup, -		-		-		-		-		6	fld ozs.	
Water, -	-		-		-		•			6	fld ozs.	
Calcium Phosphat	e Pre	ecip.	,	-		-		-		120	grs.	

First pour into a bottle the fragrant spirit, add Alcohol, then phosp. calcium. Shake well, then add syrup; shake again; lastly water, and pass through a wetted filter. This Elixir should be used for all Elixirs or mixtures containing Iron; and often desirable as a change from the other Elixirs or Flavoring Spirits in the numerable preparations. The Adjuvant Elixir, (No. 17) could well be dispensed with, in not proving satisfactory, compared to others. Also Tincture Aromatic, (No. 367.) Anise, 10 drs., cinnamon, 1 tr. oz., coriander, 5 drs., caraway, 3 drs., dil. Alcohol to make 16 fld. oz. This preparation contains too great a proportion of anise for a popular Aromatic Flavoring. The Elixir Cinchona Bark and Detannated Elixir of Cinchona, preparations weak, and often of uncertain alkaloidal strength, should be replaced by Elixir Cinchona Alkaloids. The formula given by the Lancaster county, Pennsylvania, Pharmaceutical Association, although not strong, is definite in amount of alkaloids.

ELIXIR CINCHONA ALKALOIDS.

Quinine Sulphate,		-		•		-		•		-	18 grs.
Cinchonin,	•		•		•		•		•		6 grs.
Quinidia, -		•		•		•		•		•	5 grs.
Cinchonidia,	•		-		-		•		-		3 grs.
Elixir of Orange,		-				-		•		•	16 fl. ozs

One grain of Alkaloids to each tablespoonful. By increasing amount of Alkaloids, four times, would make I grain to each teaspoonful—the strength of most Elixirs containing one or more of the Cinchona Alkaloids.

For improving the taste of Elixirs containing bromides or hypophosphites of the alkalies or alkaline earths, it is recommended by the Committee that 30 grs. of Citric Acid be added to each pint.

The Pennsylvania and Wisconsin Committee recommend Powdered Talcum in the place of Precipitate Phosphate Calcium for clarifying through filters.

Compound Elixir of Chloral and Bromide Potassium, (No. 46.) Chloral and Bromide of Potassium, each 4 tr. oz., extract Cannabis (Indian), extract Hyoscyamus, each 16 grs.; water enough to make 16 fl. ozs. The resinous extract of Cannabis being insoluble in water, therefore useless after the preparation is filtered.

The above is supposed to represent "Bromidia," in having the same amounts of chemicals and drugs, excepting Alcohol, 2 fl. ozs. to dissolve the ext. Cannabis, and 14 fluid ozs. of water.

Formula No. 4, Diluted Glacia Phosphoric Acid: Glacia Phosphoric Acid I tr. oz. Aqua to make 10 fld. ozs.; necessary when Phosphate or Pyro-phosphate of Iron, U. S. P., is to be combined or dissolved in a mixture with Diluted Phosphoric Acid, the officinal tribasic acid being inadmissible.

Formula 5, Chloroform Water: Purified chloroform 30 min., distilled water 10 fl. ozs.; recommended as a preservative agent for keeping solutions free from micro organism.

The National Formulary Committee should print a formula for Solution of Chlorate of Potassium, kept by many apothecaries for a uniform proportion of Chlorate of Potassium, I tr. oz. to water 16 fl. ozs.

Formula 174, Emulsion of Turpentine: Comprising oil of Turpentine, powdered Acacia, syrup and water. Mode of preparation recommended. Pour the oil of Turpentine into a bottle of size required, cork and agitate so as to oil inside of bottle; then add Acacia and shake again. Finally, add syrup and water; mix thoroughly by shaking. A note states that "this is not a true Emulsion and will separate on standing," which is certainly correct.

The writer has for years made satisfactory Emulsions in the following manner: Pour the amount of any oil ordered, into a bottle of size required, adding as much water as there is oil; set aside; then place into mortar the Acacia; sugar, if wanted, adding only sufficient water to make quite a thick mucilage, smoothly worked. Then shake oil and water in a thorough manner until quite milky in appearance; then quickly pour this into the mucilage, stirring it in active manner before the oil and water has time to separate, which should also be added to mucilage in successive portions, keeping up shaking during intervals.

In prescribing an Emulsion of Turpentine, if physicians would order an equal amount of a fixed oil of sweet almonds or olive oil, to that of oil of turpentine, a more satisfactory Emulsion could be secured both mechanically and therapeutically.

JACKSON'S COUGH SYRUP NO. I.

Morphia Hydrochle	orat	e,		•		•		•		-	4 grs.
Oil Sassafras,	•		-		-		•		•		2 minims.
Syrup Acacia,		•		-		-		٠			16 fld ozs.

The above formula originated in Philadelphia, but in many sections of Northern and Middle States Jackson's Cough Syrup, (Compound Syrup of Morphia,) is quite in demand. For this the following formula should be published:

JACKSON'S COUGH SYRUP NO. 2.

Fluid Extract Ipecac,		-		-		-		½ fluid drachm.
Fluid Extract Seneza,					-		•	2 fluid drachms.
Fluid Extract Rhubarb,		-		-		-		2 fluid drachms.
Morphia Muriate,	•		•		•		-	4 grs.
Syrup, -		-		-		-		16 ozs.
Oil Sassafras,	•		-				•	16 drops.

0.1. 2,	ar arops.								o por		
		AI	ROM.	ATIC	c vi	INE	AR.	,			
Oil of Lavender,	,			•		-		-			4 minims.
Oil Rosemary,	-		•		-		-		•		4 minims.
Oil Juniper,		•		-		-		•		•	4 minims.
Oil Cinnamon,	-		-		-		-		-		4 minims.
Alcohol -		•		٠		•		٠		•	3 fluid ozs.
Acetic Acid,	•		-		•		-		•		4 fluid ozs.
Water, qs., -		-		-	•	-				•	16 ozs.

Note— The oils of Juniper and Peppermint are objectionable. Preparation is weak in perfumes, also Alcohol, and too strong in Acetic Acid. The following formula of Aromatic Vinegar will prove satisfactory:

AROMATIC VINEGAR.

Oil of Lemon,		•		-		•		-		1 fluid drachm.
Oil Lavender,	•		٠,						-	1/2 fluid drachm.
Oil Rosemary,		-		•		-		•		10 drops.
Oil Cloves,	•		-		•				•	10 drops.
Camphor Gum,		•		-		-		•		ı drachm.
Tr. Benzoin,			-		-		-		-	2 fluid drachms.
Tr. Orris, -				-		-				2 fluid drachms.
Tr. Tonka,	•				-				-	2 fluid drachms.
Alcohol Sronger,		-		-		-		•		8 fluid czs.
Acetic Acid,	-		-				-		-	2 fluid czs.
Rosewater os								-		16 ozs.

Dissolve oils and Camphor in Alcohol; add Acetic Acid; lastly Rosewater; shake, let stand a few days and filter.

WINE OF COCA.

Fluid Extract	Coca,	-		•	-		-	I fluid oz.
Alcohol,	•	-	-			-		I fluid oz.
Claret, (or any	palatable	wine,)		-	-		-	14 fluid ozs.

Dr. Chas. Mitchell, after investigating five different popular Wines of Coca, found the average quantity of Alkaloid to be from 0.16 to 0.18 of to the fluid ounce, corresponding from 25 to 28½ grs. of Coca leaves assaying 0.65 of Alkaloid. A prominent foreign brand showed 0.12gr. of Alkaloid to the fluid oz. He suggests that Coca Wine be made to represent, as above, 30 grs. of the drug to the fluid oz., corresponding to about 4-5 grain of Alkaloid, if the Ccoa leaves are of superior quality. This strength allows from half to one wine-glass full being administered. In administering. Wine of Coca, Dr. Hammond, it is stated, recommends Hydrochlorate of Cocaine grs. 2, to Wine 16 fl. ozs. Others give 3 grs. of the Alkaloid to 16 fl. ozs. In order to improve the flavor of the Wine, mix Elixir of Orange 2 fl. ozs. to 14 fl. ozs. of Wine.

CINCINNATI, June 7, 1887.

J. D. WELLS.

On motion, report was accepted.

Mr. Voss read report of Committee on Tax on Alcohol and Liquor License.

REPORT OF COMMITTEE ON TAX ON ALCOHOL AND LIQUOR LICENSE.

Gentlemen—Your committee hereby respectfully present the following report and "petition" for the amendment of section 3246, pertaining to special taxes of the internal revenue laws of the revised statutes of the United States:

State of Ohio. The internal taxation enacted by the General Government during the War, was created in order to meet a large indebtedness. Said taxation maintained in time of peace, results in the accumulation of an unnecessarily large surplus in the National Treasury. This condition calls for the abolishment of Special Taxation at present levied upon certain business interests. We, therefore, respectfully ask an amendment to Section 3246, which reads in part, viz.:

"Nor shall any Special Tax be imposed upon apothecaries as to vinous or spirituous Liquors which they use exclusively in preparation or in making up medicines."

We respectfully request that by amendment the following sentences be added after the word "medicines" to section quoted above, viz.:

"Nor as to prescriptions written by physicians and the sale of Alcohol for arts and domestic uses or general manufacturing purposes, etherwise than for re-distilling, rectifying or compounding of spirituous Liquors."

Whereas, under existing section 3246, no apothecary is permitted to supply to the sick, wines or liquors upon physicians' prescriptions, or to sell Alcohol at retail for domestic uses, etc., without the payment of a tax of twenty-five dollars (\$25.00) per annum to the General Government.

For these reasons we pray that you will take special interest in having the above amendment adopted.

AMENDMENT TO THE DOW LAW.

To the Honorable Senators and Members of the House of Representatives of the State of Ohio:

We, the undersigned druggists and pharmacists, do hereby respectfully ask that you amend the Dow Liquor Law, as follows:

"All apothecaries holding a certificate from the Ohio Board of Pharmacy shall be permitted to sell Wines and Liquors, for sickness, upon a written order of a parent or person of non-intemperate habits; that he, she, or they shall solemnly affirm by signature upon a legal form drawn by an legally authorized officer, that the purchase is not intended otherwise than set forth."

Recommended to the Ohio State Pharmaceutical Association.

J. D. WELLS, Cincinnati. THOMAS JOHNSON, Steubenville. C. M. MILLER, Mansfield.

On motion, report was referred to committee of three.

President Coblentz appointed Messrs. W. J. Martin, Cincinnati;

G. L. Hechler, Cleveland; R. W. Crane, Greensburg.

The Secretary read the following telegrams:

RICHMOND, IND., June 7, r887.

To Virgil Coblentz, President Ohio Pharmaceutical Association:

Indiana sends hearty greetings and best wishes for prosperous meeting.

LEO. ELIEL, President.

HOLYOKE, MASS., June 8, 1887.

To President Ohio Pharmaceutical Association, Akron, O.:

Accept fraternal greeting from Massachusetts State Pharmaceutical Association.

J. W. COLCORD.

GRAFTON, WEST VIRGINIA, June 8, 1887.

To President Ohio Pharmaceutical Association:

West Virginia, in convention assembled, sends best wishes for pleasant and prosperous meeting.

J. A. Grant, *President*.

On motion, the President was instructed to reply to these telegrams and to send telegram of greeting to the Kansas Association.

REPORT OF COMMITTEE ON NOMINATIONS.

To the Officers and Members of the Ohio State Pharmaceutical Association:

Your Committee to whom was referred the matter of placing in nomination the names of persons to act as officers of this Association for the ensuing year, beg leave to report as follows:

President-S. E. ALLEN, of Akron.

First Vice President—M. D. FULTON, of Bucyrus.

Second Vice President—GEO. W. Voss, of Cincinnati. Permanent Secretary—LEWIS C. HOPP, of Cleveland.

Permanent Treasurer—Chas. Huston, of Columbus.

Executive Committee-THEODORE TROUPE, (Chairman) Springfield.

C. T. INMAN, Akron.

C. P. RENDIGS, Cincinnati.

THOMAS JOHNSON,

JOHN WEYER, Secretary.

Chairman.

On motion, the report was accepted.

The Secretary cast a ballot for the election of officers nominated as per motion.

The President appointed Mr. Phil Acker, Cleveland; H. J. Eady, Elyria; H. Boyer, Washington C. H., committee on time and place of next meeting.

The Executive Committee reported no objections to the fifty-nine applicants for membership, whose names were read at the morning session.

On motion, the Secretary cast an affirmative ballot for the applicants named, and the President declared them duly elected.

The Executive Committee reported two applicants for membership. On motion, action was deferred until next session.

The resignation of F. W. Seymour was read and, on motion, accepted.

The Secretary read a communication from J. W. Colcord, Secretary Massachusetts Pharmaceutical Association.

LYNN, Mass., May 31, 1887.

In the days of Augustus a decree was issued from Rome that all the world should be taxed, and that each must go annually to the city of his enrollment for this purpose. To the Pharmacist, as he makes his journey yearly to the Collector's office and deposits his \$25, there seems to be little difference whether the decree issue from Rome or Washington, except that in the latter case it goes by favoritism and that he is one of the favored ones.

In ancient times a tithe was considered excessive and burdensome, but now in many localities the Pharmacist is taxed 10 per cent. of his income by the local and national government for the privilege of supplying his customers with liquors for medicine only, and if to this we add municipal taxation, it will double this percentage. Such being the case, is it to be wondered at that the Pharmacist, finding himself so treated and classed, yields to the temptation to sell all he can in order to reimburse himself for the money of which he considers himself to have been unjustly deprived? Brethren, do we desire to continue to be longer classified as liquor dealers? If not, how can we escape it? We have, through our local, State, and national Associations, passed condemnatory resolutions, and individually protested for years. Cui bono? Have we not thrown grass long enough, and is it not time to begin throwing stones, i. e.: Working to accomplish it? When our fathers had protested against the oppressive taxation of Great Britain till patience was exhausted, they at last took up arms. Shall not we? Whenever we unitedly demand the repeal of this law, and back the demand in a proper and business-like manner, it can be done. Individual action being out of the question, and action by State Associations working singly, equally so, while the efforts of the late National Retail Druggists' Association having proved unavailing, what shall be done? Who is there that believes that the American Pharmaceutical Association will do better by us even though re-organized? Not one. Such being the case, I humbly submit a plan, that if rightfully carried on, cannot fail to accomplish the desired object. First, let each State Association, through one of its committees, either the trade or executive, canvass its State by means of local agents, so that every proprietor will be seen personally if he be willing to subscribe one dollar toward this object, it being agreed that no money shall be called for until such time as an organization (that shall be provided for in a latter portion of this plan,) shall be effected; provided also that no portion of subscription shall be used for any other purpose without the consent of subscribers, and no salaries paid. This work shall be done at the earliest practical moment and results noted. Whenever a sufficient number of States shall report favorably enough to warrant, each Association shall select one of its members to act as a committee for this purpose only. The committees of the several States shall promptly organize and proceed with the work. No money shall be expended without the consent of a proper committee, and no bills paid except as ordered by a finance committee. State Associations shall also select some influential member in each congressional district to call upon its member of Congress and urge the repeal. The statement has been repeatedly made that no funds were needed in this connection. Some of us, who have tried to get needed legislation in our State Legislatures, even where the welfare of the public was concerned, know the cost. How much greater will be the expense incurred where it is legislation for the relief of a special class and nationally. It is an axiom that governments seldom willingly relinquish an easily collectable revenue. As well might a commander say he could win battles without rations for his soldiers as for us to accomplish the repeal of this law without necessary funds. The time is passed when cities can be captured at the sound of the trumpet, or legislation secured simply by asking. It will be necessary for an able committee to make extended visits to Washington during the sessions, able counsel must be retained, petitions sent, circulars mailed, correspondence maintained, clerk hire paid, etc. Few retail Pharmacists are able to give of their time, let alone paying expenses, nor should they be asked to, where the benefits are to be shared equally by all. There is no question but that if this plan is entered into properly, it can be brought about within two years after organization.

J. W. COLCORD.

Will not Ohio join us in this greatly needed work? Please bring before your Association and urge that they take action on it.

On motion, communication was referred to committee who have report of Committee on Alcohol Tax.

The Secretary suggested as a topic for consideration by the Association of the use of 50 per cent. liquid preparations of vegetable drugs to take the place of Tinctures and Fluid Extracts now in use. Discussed by Hall, Rosewater, Spenzer and Hopp.

Mr. Hopp—Mr. President, as one of the Pharmacopæia Committee for the State of Ohio, I have no report to make. I intended to write a paper, but my time was taken up with other matters. I would

like to bring up the subject of making a class of preparations to do away entirely with Fluid Extracts and Tinctures—making them of a fifty per cent. strength. A physician then desiring to prescribe fluid preparations of that kind, will prescribe according to the dose of the drug, and not prescribe a fluid extract dose for a fincture or a tincture dose for a fluid extract, which is occasionally done. I think a fifty per cent. solution will retain the active principles of any drug better than an hundred per cent., which is the strength claimed for the fluid extracts. Most of the tinctures being ten per cent., makes them very weak and expensive. I would like to bring out the ideas of some of the members, and probably we can form a committee of investigation and consideration to report at our next meeting.

Mr. Hall—Mr. President, this is a subject I have not thought of before, but it strikes me that it would be a very good thing if it could be brought into general use. We receive prescriptions from New York, San Francisco, Baltimore, New Orleans, Germany, and elsewhere continually, and unless it could become general, we would have to carry a stock of tinctures and fluid extracts just the same. Still, of course, that stock would be limited. I think a fifty per cent. solution would be very nice indeed if it could be brought about. I think it would be better than the fluid extract, in many cases, and certainly it would be less expensive.

Mr. Rosewater — Mr. President, in regard to making all preparations uniform, I heartily agree with some that we ought to have preparations uniform, but I think we have that just as well under the fluid extract as we would under the fifty per cent. solution. If it is fluid extract, we should all understand what it is if it is an hundred per cent. solution; and if it is a fifty per cent. one, we should not confound it with an hundred per cent. one. But we find a lack of uniformity, and I think more so than in anything else, in our tinctures. We notice, for instance, that the tinctures that are being prescribed in this country are not of strength they are in Germany or in England, or in any other country, and there is no reason why uniformity in tinctures should not be established. For instance, we have a great many of eight and ten per cent. Strength, and they vary between that and as high up as fifteen per cent. Once they were as high as fifty per cent. I don't know whether there are any

fifty per cent. now or not; I do not think so. But I looked into that subject once with a view of suggesting, at the time of the meeting of the committee for establishing a universal pharmacopœia, that a plan should be adopted whereby tinctures should all be uniform, whether prescribed in this country or in any other country; and in order to do that, I saw, on looking over those that we have in this country, that but a very few changes would be necessary, and those easy to be made. For instance, tincture of capsicum and tincture of cantharides are a little weaker than ten per cent. All countries that have a strength of preparations that is above ten per cent. might unite in decreasing the strength of such preparations, until in five or ten years, the standard of ten per cent, is reached. Those that have a preparation weaker than ten per cent, could increase the strength of such preparations year by year until ten per cent. is reached. All preparations that now approach the standard-eight or nine per cent. -could be immediately brought to a ten per cent. strength. would only be a short time until we could say that there was a universal standard of strength for all tinctures, and there would be no question as to what strength tincture of so-and-so has, any more than there is a question to-day as to what strength a fluid extract has. And this is as easy of application in this country as it would be in Germany, or England, or any other country, because with a gradation of five or ten years, preparations changed could be learned byphysicians. Again, if such a plan is adopted, we would look at an old prescription and see that it was prescribed in 1860 or 1880, and immediately know the strength of the preparation at that time. It will give us a way of arriving at a direct connection between the strength of the past and the present. I think it would be a very simple method, and one that the Association could suggest and recommend to the American Pharmaceutical Association for adoption.

Mr. Hopp—Yes, but that is not in reference to fluid extracts. Now, can every druggist make a fluid extract? Can they be made as easily as a tincture? Representives of the manufacturing establishments come to you and say, "You can't make fluid extracts. You can't extract them according to the Pharmacopœia. If you do, you must use heat; you must evaporate." The manufacturers say, "We don't use heat. We extract the active principle without heat." Now,

if the retailer cannot make these fluid extracts, he has to buy them, and the idea is for retailers to make them; and if they make a fifty per cent. solution, they can more easily extract the drug than make a fluid extract, because they cannot make a fluid extract pound for pound. Not only that, but according to a paper by Prof. Lloyd and one or two others, fluid extracts change by temperature—heat and cold.

Mr. Rosewater-Would it cost any more to make them?

Mr. Hopp-Not so much.

Mr. Rosewater—If you have a fifty per cent. strength you must use twice as much Alcohol.

Mr. Hopp—Not necessarily. The fluid extract itself has to be stronger in Alcoholic strength than fifty per cent. or ten per cent. mixtures, which are much easier to make.

Mr. Rosewater— You would only be adding to the number of preparations. It is bad enough as it is. I think we should arrive at more simplicity.

Dr. P. I. Spenzer—I believe that something over thirty years ago Tilden & Co., of New Lebanon, New York, introduced fluid extracts. When fluid extracts were first made, they were just about fifty per cent. strength. Soon some manufacturers followed who wanted to make fluid extracts cheaper, and they did, and some of them came down to about twenty-five per cent., and we find finally all strengths. Now, I think the present standard as adopted, an hundred per cent. fluid extract, is really the best plan, and I think if we stick to it, it will be well. As to the retail pharmacist manufacturing his own fluid extract, he can make it just as cheaply as the manufacturer; he can make just as good a fluid extract, and even lose his excess of Alcohol. Even if he loses double the amount of Alcohol, if he will figure it up, it don't cost him any more than what he buys, and he knows what he has. As far as heat is concerned, I suppose all know it does not require sufficient heat to destroy the drug to drive off the Alcohol, and I think that to retain the present form is really better than to reduce its strength.

Mr. Feil read paper by J. G. Spenzer, M.D., of Cleveland, in answer to Query 20.*

Paper by Jos. Feil in answer to Query 25.*

Executive Committee reported eleven applicants for membership.

Moved and seconded that the Association go in a body to the exhibition hall after meeting adjourns. Carried.

On motion, adjourned until 10:15 Thursday morning.

THIRD SESSION. Thursday, June 9, 1887.

On motion, minutes were approved as read.

The eleven applicants for membership, whose names were read at a previous session, were on motion elected, the Secretary casting the ballot.

The President appointed the following Committee on Pharmacy Board Vacancy: W. J. Martin, N. Rosewater and S. W. McKeown.

REPORT OF COMMITTEE ON TIME AND PLACE.

Mr. President and Gentlemen of the Convention:

In view of the fact that the next annual meeting of this Association will be its tenth anniversary, and that the first meeting was held in Columbus, your Committee on time and place of next meeting would suggest the place of meeting be at the above named city, and time second Tuesday in June, 1888.

Respectfully submitted,

HARRY BOYER, HENRY J. EADY, PHILIP ACKER.

On motion, report was accepted.

On motion, Columbus was chosen as the next meeting place. Time, second Tuesday in June, 1888.

Mr. Weyer read report of Committee on President's Address.

REPORT OF COMMITTEE ON PRESIDENT'S ADDRESS.

To the Officers and Members of the Ohio State Pharmaceutical Association:

Your committee, to whom was referred the Address of the President, beg leave to report the following:

^{*}Discussions follow papers.

That in accordance with his recommendation the Treasurer be authorized to collect any unpaid dues through any banking institution.

Your committee would hereby respectfully recommend that instead of entailing upon the Standing Committee on Papers and Queries, additional duties of that of Adulterations and Sophistications, as recommended by the President, that the By-Laws be so amended as to provide an additional committee for that especial purpose.

As to his recommendation that a portion of the funds of the Association in the hands of the Treasurer, be set aside as a permanent fund, your committee would respectfully recommend that the funds held by the Treasurer are not sufficient to justify any action in this matter at present.

Our President, having recommended the establishment of a life membership, your committee would refer the matter for discussion without recommendation.

In regard to a yearly conference of State Secretaries in connection with the American Pharmaceutical Association, for the purpose of duscussing ways and means of conducting State Meetings, your committee declines to make any recommendation.

With regard to recommendation for amendment of Art. 7, Chapter II, of our By-Laws, we recommend that it remain as it is.

As to making an exhibit of different pharmaceutical preparations, made by any members of our Association, either pharmacists or assistants, meets with our hearty approval.

Respectfully submitted,

JOHN WEYER, JAS. H. CASE, M. D. FULTON.

On motion, report was accepted.

On motion, the following suggestions of the President were adopted:

That the Treasurer be authorized to arrangement with some bank in Columbus for the collection of annual dues.

That the Secretary attend the annual conferences of State Association Secretaries at the meetings of the American Pharmaceutical Association, and that his traveling expenses for this year be paid by the Association.

That a committee of five be appointed to solicit exhibits of pharmaceutical preparations made by members of the Association.

The President appointed the following committee: H. C. Cook, Columbus; C. T. P. Fennel, Cincinnati; L. Sollmann, Canton; J. D. Lisle, M.D., Springfield; C. D. Kerr, Gallipolis.

The Secretary read invitation from Michigan Pharmaceutical Association to attend its meeting at Petoskey, July 12, 13 and 14, 1887, and credentials of Dr. A. B. Lyons, of Detroit, and J. C.

Harper, of Milan, Michigan, delegates to the Ohio State Pharmaceutical Association.

Dr. Lyons being present, privilege of the floor was extended him. Dr. Lyons addressed the meeting with a few remarks, and extended a hearty invitation to the members to attend the meeting of the Michigan Association.

Mr. J. C. Harper, of Milan, Michigan arrived as the Association adjourned, and on account of sickness, was obliged to return before the next session.

On motion of Mr. Hechler, the President appointed the following delegates to attend Michigan Association meeting: L. C. Hopp, Cleveland; S. E. Allen, Akron; F. H. Coblentz, Springfield.

Mr. Feil read paper by Prof. J. U. Lloyd, entitled, "The Hand-Writing on the Wall."

Prof. Lloyd-Mr. President, can I interrupt the order of business to introduce a resolution? About forty years ago a gentleman came from Germany to the State of Ohio, and commenced a pharmaceutical business in the city of Cincinnati. He was well known at that time in our city, but many years ago moved to a Southern city, the city of Mobile. Since that time he has acquired a national and international reputation. He is known in Europe, perhaps, better than he is to many in America. He is a man that we look up to and honor. I suppose that all pharmacists do. All, certainly, who have made his acquaintance. He is the man whom Prof. Maisch selected to review for the Journal of Pharmacy the "National Dispensatory," when it appeared. He was selected by the Confederate Government, although his opinions were with the Northern people, to make their medicines for them during the War, and he did so. He is the man - unassuming and talented-who was selected by our Government to write up the trees and forests of the South for the last Census, and he did the work thoroughly. He then went to Washington to continue that branch of work in the Agricultural Department, and he did that work. I have learned since I started for this meeting that this gentleman—and, by the way, his name is Dr. Charles Mohr, of Mobile, Alabama — is to sail for Europe to visit the Fatherland, within a few days, and I believe, gentlemen, that it would be a graceful act in us and a compliment to our Association to elect him

to an honorary membership in our Association, and telegraph that fact to New York. I know it will be appreciated by him, and I know it will be appreciated abroad. I hereby introduce a resolution to that effect, trusting that it will be seconded.

On motion of Prof. Lloyd, Dr. Charles Mohr was elected an honorary member. (See acceptance from Dr. Mohr).

NEW YORK, June 18, 1887.

Mr. Lewis Hopp, Secretary Ohio State Pharmaceutical Association:

m:

My Dear Sir—Delayed by heavy storms during my trip by sea, I arrived here but a very short time before taking the steamer for Europe. Hence the delay in my acknowledgement of the receipt of your telegram I found on my arrival here at Dr. Hoffman's. Permit me to express by this the feeling of pleasure I experienced in finding myself at the last session of your body appointed an honorary member. Having shortly after my arrival in this country, found in your State the starting point of my career in life, which led to my connection with our profession, and to those pursuits which have ever been the delight of my life, I feel naturally attached to Ohio, and for that I appreciate so much higher the honor which the Pharmaceutical Association of that State has conferred upon me. Believe me, with my sincere regards, fraternally yours,

Mr. Cook read paper by Prof. C. T. P. Fennel, in answer to Ouery 28.

Mr. McKeown read paper in answer to Query 33.

REPORT OF AUDITING COMMITTEE.

To the Officers and Members of the Ohio State Pharmaceutical Association:

Your committee appointed to examine the Treasurer's report, find the same correct. Respetfully submitted,

G. L. HECHLER, JOS. I. BECK, M. D. FULTON.

The Committee on Nominations reported the name of H. C. Cook, of Columbus, Local Secretary.

On motion, the report was accepted, and the Secretary cast an affirmative ballot for his election.

The following two amendments to the By-Laws were offered:

Resolved, That Chapter V, Art. 1, of the By-Laws, be so amended as to provide an additional committee of three members, to be styled a Committee on Adulterations and Sophistications.

[Signed]

JOHN WEYER, M. D. FULTON, I. H. CASE.

Resolved, That Chapter II, Art. 8, be added to our By-Laws, which shall read as tollows: Active members of this Association in good standing for at least five years, may have issued to them by the Secretary a Certificate of Life Membership, upon the payment of ten dollars into the treasury of the Association.

John Weyer, J. H. Case, M. D. Fulton.

President—These will have to lay over until our next session.

REPORT OF COMMITTEE ON PHARMACY BOARD VACANCY.

Your committee beg leave to report the following names:

J. A. NIPGEN, of Chillicothe.

G. L. HECHLER, of Cleveland.

M. D. FULTON, of Bucyrus.

PHIL LEHR, of Cleveland.

C. N. NYE, of Canton.

W. J. MARTIN, N. ROSEWATER, S. W. McKEOWN,

On motion, the report was adopted.

Extracts were read from paper prepared by E. H. W. Stahlhuth in answer to Query No. 32, and by John J. Buehler, Query No. 12.

On motion, adjourned till 2 P.M.

FOURTH SESSION. Thursday, June 9. Afternoon session.

Minutes read and approved.

Amendment to Chapter V, Art. 1, By-Laws, adopted.

Article 8 to Chapter II, of By-Laws, adopted.

The following communication was received.

CINCINNATI, Ohio, Nov. 30, 1886.

The Public Library, of the city of Cincinnati, has received from Mr. Lewis C. Hopp, as a gift to the library, the book mentioned in the following schedule, for which the board of managers return their sincere thanks.

GEORGE EWING, President, W. W. WHELPLEY, Librarian. Proceedings of the Ohio State Pharmaceutical Association, at its eighth annual meeting held in Springfield, June, 1886.

Mr. Voss moved that the salaries of the Treasurer and Secretary be paid, and that they be authorized to draw on the treasury for the amount. Seconded and carried.

The Secretary read the report of the committee appointed to consider the report of the Committee on Tax on Alcohol.

REPORT OF COMMITTEE ON TAX ON ALCOHOL,

To the President and Members of the Ohio State Pharmaceutical Association:

After due deliberation your committee desire to recommend the adoption of the changes in the Dow Law as recommended by Mr. Wells, and that it would be well for our State Association to co-operate with other State Associations in following out the plan as suggested by Mr. J. W. Colcord, to secure legislation to have the national tax on Alcohol removed.

W. J. MARTIN,

G. L. HECHLER.

On motion, the President appointed a committee of five to take the matter in charge.

Committee: Wells, Hechler, Hall, McClain and Arnold.

Mr. Feil read the following papers (by title.)

W. Simonson, of Cincinnati, in answer to Query 34.

S. W. McKeown, of Youngstown, Query 14.

E. Goodman, of Cincinnati, Query 14.

Also paper on Ethel Nitrite, by J. Geo. Spenzer.

A. Thurston, of Grand Rapids, O., in answer to Query 15.

Mr. Feil—I move that a vote of thanks be given to all the members who have furnished papers here, and a special vote of thanks to Mr. J. George Spenzer, who has furnished us two very interesting papers, and who is not a member, and that ten copies of the Proceedings be given to him. Seconded and carried.

A discussion of the "Dow Law" being suggested, Mr. Weyer was requested to speak on the subject, and said:

Mr. Weyer—Mr. President, I hardly know what to say on that matter. I don't know that there is anything in it that particularly interests pharmacists, except the clause limiting the sale of liquors by

the pharmacist, and that is embodied in a very few words. He may sell upon the prescriptions of physicians in good standing—reputable physicians—made in good faith; that is, when the prescription is written for a case of necessity, the same as he would write any other prescription. It must be in good faith, and by a reputable physician. Then, in addition to that, he is permitted to sell liquors for mechanical, pharmaceutical and sacramental purposes. mechanical purposes," I take it, means, perhaps, to the painter who desires to dissolve shellac, or for such purposes as that. maceutical purposes," I take it, was intended for the wholesale dealer, that he may sell to the retailer. The retail druggist scarcely ever sells to any person else for pharmaceutical purposes. He is not permitted to sell for medicinal purposes at all except on the prescription of a physician. There is no need of our attempting to construe "pharmaceutical purposes" to mean that we can sell to our customers as we please. If we sell "for sacramental purposes," of course it is expected that we thoroughly understand or are satisfied that it is to be used for that purpose in wines. We long ago discussed this matter in our Society in Cincinnati, and decided clearly in our own minds that if we wanted to sell liquors except on physicians' prescriptions, we must pay the tax.

Mr. Hechler-Mr. Chairman, I do not entirely agree with friend Weyer, of Cincinnati, in regard to the meaning of "pharmaceutical." The law does not in any way state that that applies to wholesale "Pharmaceutical" relates to the preparing, preserving and houses. compounding of medicines. Now, I do not believe, in the first place, that the Dow Law was intended to affect legitimate druggists and pharmacists in the sale of liquor to parties that wish to use it for medicinal purposes, although it specifies medicinal only on prescriptions of regular practicing physicians. Suppose some one comes into the store and wishes to buy fifteen cents' worth of rye whiskey and five cents' worth of camphor. Do you suppose for a minute that the pharmacist, under the Dow Law, has no right to sell them? I should sell them, and I think we have a perfect right to do so. Do you suppose that this Dow Law can compel people to go into saloons? Do you suppose it was intended by the Dow Law to provide that people who do not wish to go into saloons, who wish to buy their liquor in a proper place, where they can be confident that they are getting pure liquor, cannot go in a drug store to buy their liquor without the druggist being obliged to pay two hundred dollars annually for a license, when, in many instances, he does not sell that much liquor through the year? I think the law intended that pharmacists should have the privilege of selling it for legitimate purposes.

Mr. Case—Mr. President, I would like to ask a question. If a person has consumption, and is in such a condition that he cannot take a bath without liability of taking cold unless he added Alcohol to the water, and should send to the store for Alcohol for that purpose, would the druggist be allowed to sell it to him without a prescription?

The President—Following the law strictly, I do not think he would. Mr. Case— I refused a case of that kind last night without a

prescription. At the same time, I do not think it a proper thing to do—a poor person suffering and wanting to take a bath.

The President—It seems that the law does not allow you to make any distinction.

A Member-Was this an internal or external bath?

Mr. Case—External. This is not an exaggerated case at all. I wish to ask another question. Has a druggist a right to sell cologne or bay rum without being liable to the Dow tax?

The President—Cologne would be a pharmacopœial preparation.

Mr. Case — That may be. I asked the question of our local Judge here some time ago, when there was a party around attempting to catch the druggists of Akron—and he did catch some, I believe. I went to the Judge and asked him if he could explain to me at what time whiskey became whiskey and at what time it ceased to be whiskey and became medicine. He said he could not; I would have to use my own judgment. He could not give me any answer whatever to it. Parties come to your store sometimes and want quinine and whiskey; they want it bad—not because they are in the habit of using it, but because they do not wish to go and ask a physician for a prescription and pay half a dollar for it. Has a druggist a right to prepare for a man a bottle of whiskey and quinine 1 he thinks he is not using it as a beverage but medicinally?

Mr. Weyer-Mr. President, I have not the slightest idea but that when the law was framed it was intended to give the druggist certain privileges; but the wording of it is unfortunate in that respect, and it does not cover his case at all. As to quinine being added to whiskey, it is my opinion that when whiskey is used and sufficient additional ingredients are added to make it distinctly a medicinal article, it would not properly come under the Dow Law. be distinctly a medicinal article. For instance, a man came into my store about a month ago and asked me for a quantity of whiskey. I told him I could not sell it except on a physician's prescription. "Well," he said, "I want it to make a cough mixture." I said, "What do you want to make?" He said, "I want to take equal parts of whiskey, glycerine and honey." "Well," I said, "I will make you a cough mixture." I made him up a pint of equal parts of whiskey, glycerine and honey, and labelled it on the bottle, and sold it to him.

Mr. L. W. Smith—I have had this come under my notice: Sometimes a prescription is made for a pint of whiskey, and the party will say, "I only want a couple of ounces on the prescription, and I will call for it again." Would I be violating that law to fill that at another time, the prescription being left in my care?

Mr. Lewis—If a consumptive, for instance, with such a prescription was poor and had to use whiskey right along, and I knew that he would need it right along, would I be justified in refilling said prescription for him?

Mr. Weyer—I think the physician could write on his prescription, "To be refilled." I think that would be the proper way to do in all those cases.

The President — Or the patient might retain the prescription and present it each time he wanted it filled.

Mr. Hechler—Suppose a person should ask you for Alchol, saying he wished it for mechanical purposes? Suppose he wanted it for some secret process?

Mr. Weyer—I would have him sign a certificate.

Mr. Hechler—So would I, and with a witness. For instance, if he wanted to put it in a barrel of cider, I think that by having him sign with a competent witness you could sell it.

Mr. Case—A painter who lived in our ward came to our store at one time with a pint bottle, with shellac in the bottle. He wanted a pint of Alcohol to put in that shellac for the purpose of making shellac varnish to varnish knots in his painting. I filled the bottle with a pint of Alcohol. He had his sleeves rolled up and was sweating, and he took that outside of the store and commenced to use it up as whiskey, although shellac gum was in it. Now, I want to know if I violated the law. (Laughter.)

Mr. Miller—Mr. President, I have gone to some expense to get an answer to some of these questions. It has cost me a hundred dollars. (Laughter.) I was on that Committee, and I asked the Prosecuting Attorney of our county some questions in writing, and he answered them. I think Mr. Wells has those questions; they have not been returned to me. We have adopted a form of certificate down in our county which answers our purpose, and I will pin a copy of it upon the wall.

I hereby certify that this day I bought of
C. M. MILLER, Druggist,

Exclusively for Mechanical, Pharmaceutical or
Sacramental purposes.

Mansfield, Ohio,, 188..

MANSFIELD, O., April 19, 1887.

H. E. Bell, Attorney:

Dear Sir—I submit herewith a printed sip, as a part of this inquiry, and request your opinion in writing as to the following propositions:

1. As to Section 8 of an act entitled, "An act providing against the evils resulting from the sale of intoxicating liquors."

What is a fair and full construction of said section as pertaining to the business of drugs and prescriptions?

2. If a party purchasing liquors other than on prescription of a regular physician represents the use to be either mechanical, pharmaceutical or sacramental purposes and signs this slip, erasing the two purposes not represented, which slip is retained by the druggist, what in your opinion is the liability of the dealer and purchaser, or either of them, in the light of said Section 8?

Yours truly,

CHAS. M. MILLER.

To C. M. Miller, Druggist, Mansfield, O.:

Sir—You submit herewith an inquiry in writing, with printed slip, asking my opinion as to two stated propostions relative to the Dow Liquor Tax Law and Section 8 of the same.

I understand, upon a careful examination of said Section 8, that the term trafficking in intoxicating Liquors, would be construed to mean and include any and all sales by retail, of Liquors, except upon prescription issued in good faith by reputable physician in active practice. However, the same section authorizes sales for "exclusively known mechanical, pharmaceutical and sacramental purposes"

I understand the word known to imply actual knowledge of such purpose at the time of sale. I think it but reasonable to conclude that, such knowledge which the law seems to require of dealers, can only be acquired by inquiry directed to the purchaser. For instance, a purchaser names one of the three purposes, to wit: mechanical, pharmaceutical or sacramental, apparently in good faith, when perhaps it may be in fraud and intentional evasion of the law; an inquiry in good faith by the dealer of the purchaser, is in many cases the only means and source of information within the power of the dealer as to the purpose contemplated. I surmise the purpose of the printed slip or receipt, is, in all cases where goods are sold for either of said purposes, and not on prescription. That the purchaser signs the same as an evidence of good faith and purpose; and you inquire the protection, if any, the dealer would have from prosecution for violation of the law if the actual purpose was other than stated in the slip or receipt.

Assuming the foregoing to be a correct surmise of your inquiry, I will say that if a purchaser makes such request, in the form of the printed certificate, erasing two, and leaving one of the purposes as that for which the goods are to be used, and signing the same delivers it, and the dealer retains the same and makes the sale in good faith, it is my opinion that in such case, and in every absence of fraud and purpose of evasion which the term good faith would imply, on the part of the dealer, that the dealer would be absolved from liability for a violation of said Section 8, and would not come within a violation of the provisions of the same, as, in my opinion, he acts upon such knowledge of the purpose for which the goods are obtained, as is within his power, and in the full exercise of good faith. And as to the liability of the purchaser in such case, I am clearly of the opinion that the purchaser would, under such circumstances, by reason of such fraudulent purchase and representation to the dealer, and such flagrant violation and evasion of said Section 8, come within the violation of the provisions of said Section 8, and be liable to prosecution under the laws of Ohio, in such case made and provided.

I am very truly yours,

H. E. BELL, Attorney, Mansfield, Ohio.

REPORT OF COMMITTEE ON PRIZES.

Mr. President:

Your committee beg leave to report the awarding of prizes, after a careful examination of the papers presented, as follows:

Query No. 14 is entitled to first prize; No. 28 is entitled to second prize; No. 32 is entitled to third prize.

N. ROSEWATER, JOHN WEYER, J. I. BECK.

Report of Committee on Prizes accepted.

Messrs. Wahmhoff and Weyer were appointed a committee to escort the newly-elected President to the chair.

Mr. Allen—Gentlemen, I thank you very kindly for the honor which you have conferred upon me, and I think that I am doubly under obligations to your committee and to you all, for the reason it is an honor which I have not sought myself. I had never asked for it, and when some of my friends came to me and asked me to take it, I said "No, I prefer that somebody else should have it." And now that I have been nominated and elected to the office, I feel that I am doubly under obligations. Again, gentlemen, I thank you for the honor. (Applause.)

Prof. Coblentz—Gentlemen of the Association, I desire in turn to thank you for your kind attention, the promptness with which you have assisted in the conducting of business, and for the many courtesies and kindnesses received from both members and officers of the Association. I shall always remember the Ohio State Association wherever I may be, and I hope that you will have the success in the future that you have had in the past. (Applause.)

Mr. Hechler—Mr. Chairman, I wish to make a motion to extend our hearty thanks to our retiring President for the courteous treatment extended by him to all members of this Association. Motion seconded and carried.

Eleven members elected.

Moved and seconded that a vote of thanks be tendered to the Local Secretary for his efficient work during the past year. Carried.

Mr. Voss moved a vote of thanks to the druggists of Akron, to the press, and to the city government for the use of the Council Chamber. Seconded and carried.

The Secretary presented a bill for legal services paid by Mr. Miller, and moved that the same be allowed, and that the Treasurer be authorized to pay the amount to Mr. Miller. Seconded and carried-

Mr. Miller moved that the correspondence between the Committee on Legislation and the Prosecuting Attorney of Richland county, be printed and a copy mailed to every member of the Association.

Mr. Fulton moved as an amendment that the correspondence referred to be printed in the Proceedings.

Amendment accepted, seconded and carried.

President Allen announced the following Standing Committees.

Trade Interests.— C. B. Johnson, Middletown; M. H. McClain, Galion; W. J. Walding, Toledo.

Papers and Queries.—Joseph Feil, Cleveland; W. Simonson, Cincinnati; J. I. Beck, Springfield.

Reporter on Progress of Pharmacy.—S. W. McKeown, Youngstown.

Pharmacy Laws.—G. L. Hechler, Cleveland; J. A. Nipgen, Chillicothe; Chas. Huston, Columbus; J. H. Wahmhoff, Delphos; W. J. Martin, Cincinnati.

Unofficinal Formulæ. — Lewis C. Hopp, Cleveland; E. Goodman, Cincinnati; H. C. Cook, Columbus; F. T. Bower, Toledo; J. C. Bolger, Salem.

Adulterations and Sophistications.—Joseph Feil, Cleveland; J. U. Lloyd, Cincinnati; F. T. Bower, Toledo.

The Secretary read resignation of Prof. Coblentz as a member of the Committee on Revision of the Pharmacopæia.

Mr. Cook moved that the Association accept the resignation with regret. Seconded and carried.

The President appointed Mr. Huston to fill the vacancy caused by the resignation of Prof. Coblentz.

REPORT OF COMMITTEE ON EXHIBITS.

The following is a complete list of exhibitors:

Benton, Myers & Co., Cleveland, O.—Sponges and Chamois Skins. Represented by W. G. Hornsby.

Duroy Wine Co., Cleveland, O.— Pure Native Wines. Represented by E. J. Haines.

Parke, Davis & Co., Detroit, Mich. — Chemicals, Fluid Extracts, and Crude Drugs. Represented by W. K. Walker and J. H. Bellerman.

F. H. Stearns & Co., Detroit, Mich.—Non-secret Remedies and Pharmaceutical Preparations. Represented by A. Hitchman.

John Wyeth & Bro., Philadelphia, Pa.—Fluid Extracts, Compressed Tablets, Elixirs, etc. Represented by J. C. Ballard.

Burrough Bros. Mfg. Co., Baltimore, Md.—Exclusive Manufacturers of Fluid Extracts. Represented by W. L. Hooff.

Eli Lilly & Co., Indianapolis, Ind.—Complete Line of Pharmaceutical Preparations. Represented by A. J. Wallis.

The Upjohn Pill & Granule Co., Kalamazoo, Mich.— Soft Coated Pils and Granules. Represented by H. S. Mead.

Wm. S. Merrell Chemical Co., Cincinnati, O.—Chemicals, Fluid Extracts, etc. Represented by H. Skellman.

Seabury & Johnson, New York and London.— Surgical Plasters, Antiseptic Absorbents and Dressings. Represented by C. N. Raymond, M.D.

Foote & Jenks, Jackson Mich.—Perfumes. Represented by C. S. Peyton and C. C. Ienks.

McKesson & Robbins, New York, N. Y.—Pills. Represented by James Bennett. Graham Bros. & Co., Chicago, Ill.—Perfumers and Manufacturers of Fine Toilet Soaps. Represented by W. S. Howarth.

Eastman & Bro., Philadelphia, Pa.—Perfumery, Toilet Soaps, etc. Represented by W. R. Jewett.

J. M. Portuando & Co., Philadelphia, Pa.—Cuban Hand Made Cigars. Represented by J. S. Crombarger.

W. S. Torsion Balance and Scale Co., Cincinnati, O.—Manufacturers of Druggists' Scales. Represented by A. L. Gallaher.

A. C. Brown, Canton, O.—Druggists' Glassware. Represented by A. C. Brown. King Varnish Co., Akron, O.—Fine Coach and Furniture Varnish. Represented by A. M. Armstrong.

E. W. Hoyt & Co., Lowell, Mass.—Rubifoam and German Cologne. Represented by L. E. Smith.

National Cash Register Co., Canton, O.— Manufacturers of Cash Registers. Represented by J. H. Crane.

H. W. Stetcher, Cleveland, O.— Sticky Fly Paper. Represented by H. W. Stecher.

Bradley & Smith, New Haven, Conn.—Cigar Cases. Represented by J. S. Crombarger.

Hamel & Weidersheim, Philadelphia, Pa.—Flavoring Extracts. Represented by J. S. Crombarger.

St. John Sewing Machine Co., Springfield, O.—Ice Shaver. Represented by W.

Malto Mfg. Co., Cleveland, O.—Manufacturers of Malto. Represented by Chas. Miller.

Respectfully submitted.

JOHN GRETHER.

On motion, the Association adjourned to meet in Columbus, O., the second Tuesday, June 12, 1888.

LEWIS C. HOPP, Permanent Secretary.

LIST OF QUERIES

TO BE ANSWERED AT THE TENTH ANNUAL MEETING,

To be held in Columbus, O., June 12, 1888.

- 1. Are the assayed Fluid Extracts of manufacturers true to the strengths claimed?
- 2. Is Cochin Ginger more valuable for pharmaceutical uses than Jamaica Ginger?
- Examine the Hypophosphites of the market for impurities and percentage of Hypophosphite in each salt.
- 4. What tests distinguish certainly between the volatile oil of Betula Lenta and Oil of Wintergreen, for which the former is said to be substituted frequently?
- 5. Is it justifiable to dispense Aqua Amygdale Amaræ when Aqua Lauro-cerasi is ordered by the physician?
- 6. Examine the Pancreatins of the market and report as to purity, etc.
- 7. Does Hydrocyanic Acid of the present U. S. P. process keep better than a two per cent. aqueous solution under the same conditions?
- 8. Hydrastin has been proven to be the chief proximate principle of Hydrastis canadensis; devise an assay process by which its percentage in the drug may be accurately determined.
- 9. Is Laudanum now made by the U. S. P. '80 formula; that is, will it assay between 1.2 and 1.6 per cent, Morphine?

- 10. What is the condition of the present market on powdered Rhubarb?
- 11. Examine and report upon the Concentrated Liquors for preparing certain Officinal Syrups; should they be used for the purpose recommended?
- 12. What Ferrous Salt may with advantage replace Ferrous Lactate in preparing Syrupus Hypophosphitum cum Ferro?
- 13. It has been stated that Caustic Potash and Soda cannot easily be made of 90 per cent. purity strength required by the U. S. P.; is this true, and what is the percentage of pure Alkali in commercial specimens of both?
- 14. Is Dialyzed Iron antidotal to arsenious or arsenic compounds? If so, what is its value as compared with Ferric Hydrate and with Ferric Hydrate with Magnesia?
- 15. Is the Chromate or Oxalate Quinine test more valuable than Kerner's?
- 16. Examine the Calamines of commerce.
- 17. Is the Hubbuck's English Zinc Oxide sold at a high price more valuable for making the Zinc Oxide Ointment than that usually sold by wholesale druggists?
- 18. Commercial Glycerine is now obtained from two sources: vegetable oils and animal fats; is that from the former source superior to that from the latter?
- 19. What is the best process for making Syrup of Calcium Lactophosphate?
- Analyze and give proximate formulæ for Bromo-Chloralum, Platt's Chlorides, and other popular disinfectants.
- 21. What is the amount of Ash present in the U. S. P. and in the Alum Prcipitated Podophyllins of the market; is there enough Alum or Aluminum Salts present in the last named to be injurious?
- 22. Examine the various brands of Condensed Milk.
- 23 Examine the Potassium Chlorate of the market for Chloride and other impurities.
- 24. Old specimens of Fowler's Solution are often nearly free from Arsenous Acid; what changes take place in this preparation by time, and under what conditions is it best stored?
- 25. Do brands of Commercial Citrate of Caffeine differ in the percentage of Caffeine?
- 26. What is the composition of "Solution of Bromide of Arsenic" sold under various names and used extensively in some sections? does it contain true Arsenious Bromide (As. Br₃)?

- 27. Can water clarified by Alum be employed for Pharmaceutical uses?
- 28. What is the best method of eliminating the Oil from the Seeds of Strychnos Nux Vomica, so that the Alcoholic Extract may be powdered?
- 29. What are the most suitable excipients for Calomel, Corrosive Sublimate and other Mercury Salts? Which produces the least change in the contained chemical after the mass has been long made?
- 30. Distilled water: how long can it be kept pure? would it not be better to use filtered river water than Distilled Water that has been on hand for some time?
- 31. Carbonate of Magnesium is much used in clarifying mixtures obtained in making Syrups and Wines from Tinctures and Fluid Extracts; can it be used safely if the mixture represent an Alkaloidal Drug, as Coca, Pilocarpus or Ipecac?
- 32. Dilute Phosphoric Acid is said to be made from the Glacial Acid by some manufacturers; can this be proven, and is it advisable to be thus prepared?
- 33. Chlorine Water: at what rate does decomposition proceed? Data are wanted as to its keeping qualities under varying conditions.
- 34. Can Wood Alcohol be used in place of Ethyl Alcohol in making solid extracts and other preparations from which the solvent is expelled? What are its solvent powers as compared with the latter, in extracting Alkaloidal Drugs, as Nux Vomica, Ipecac, Belladonna, and others?
- 35 It is claimed that many Wines of Coca are made from Wine and a Cocaine Salt flavored with a small quantity of Fluid Extract Coca Leaves; can this be proven, and is it desirable to have this preparation made in this manner?
- 36. Devise a practicable formula for a liquid preparation of Granatum to replace the decoction, which shall be free from Tannin or other objectionable proximate principle of the drug.
- 37. Non-secrets: Is it justifiable or advisable to sell those which are colorable imitations of proprietary medicines?
- 38. Specific gravities of Aqueous Solutions of Ammonia of certain strengths are given differently by authorities usually quoted; what are the true specific gravities of 10 per cent. and 28 per cent. Aqueous Ammonia at 4°C, at 15°C and at 25°C, the standard for comparison being water at 4°C and the same at 15°C?
- 39. At what rate does Iodine disappear in Tincture of Iodine when kept under conditions most favorable to its preservation?
- 40. Is Ethyl Sulphuric Acid found in the officinal Aromatic Sulphuric Acid, either at the time of making or when long stored?

- 41. What is the quality of Chloroform and Purified Chloroform of the present market supply?
- 42. What are the comparative values of Russian and Chinese Cantharides, based upon percentage of Cantharidin? Should the latter be used in making officinal preparations of Cantharides?
- 43. It has been stated that Conium fruits occur invariably in Italian Anise; an examination of commercial Anise for this contamination is desirable.
- 44. How does solution of Bimeconate of Morphine compare in strength with Tincture of Opium of the present standard?
- 45. Is Lead Plaster made from Cotton Seed or Lard Oil as good as that made from Olive Oil?
- Test commercial Phosphoric Acid, U. S. P. for impurities and for percentage of absolute Phosphoric Acid H₃ PO.₄
- 47. What is the composition of commercial Calcium Lactophosphate, and is it suited for making the Syrup?
- 48. What syrups may, and what may not, be made advantageously by percolation?
- 49. What are the relative merits of proposed methods for making Diachylon Ointment? Which give a product of best keeping qualities?
- 50. What syrups of the U. S. P. not now made from Fluid Extracts, can best be made in this manner?

THE HANDWRITING ON THE WALL.

BY J. U. LLOYD,

Cincinnati, O.

Gentlemen—The object of this paper is, I believe, of importance. We of the present are interested—those who are to follow, members of our profession—must be more interested. To me the handwriting is distinct and the letters are plain. There is no longer a doubt regarding their character, and I think that most persons will agree with the spirit of my paper even if differing on certain features of it. It matters not whether the handwriting is as we wish it, or is in substance as we would prefer it, there it stands and boldly stares at us. Before proceeding I would call to your attention that my own

pharmacy is the result of empiricism, and that when I refer to empiricists in pharmacy, I include myself and others who have stumbled into the profession by irregular labors and interrupted, unsystematic, laborious study. I will not here attempt to argue the final possible result of such labor, but simply state that we have had to do a large amount of work that under proper guidance is perhaps unnecessary.*

In this regard most of us stand together. We are, as a rule, pharmacists with high opinions of the olden time and former methods. We commenced our labors as apprentices or errand boys; we struggled at first with window washing, mortar and graduate cleaning, and perhaps scrubbing the floor. Then we were permitted to learn the weights and measures; to occasionally triturate a mixture in a mortar; to replace bottles after our employers had used them in compounding a prescription, and afterward to even bring him shelf bottles to obtain his medicines from, as we watched him fill a prescription. Thus we passed gradually to the weighing of these substances under the eye of our preceptor, the folding and dividing of powders, the measuring of liquids after our employer was sure we could read that particular prescription, and so on to filling prescriptions; few of us had the advantage of a College of Pharmacy education.

Am I not right—have we not severally felt the pride of being for the first time left alone in the store? To me it seems that the proudest day of my life was that on which my employer, (bless him, still one of the worthy members of this Society,) gave me charge of his store while he left for an entire afternoon. This is the way we learned the business, and in my opinion it is yet the only way to learn a certain part of it. However, those of us who thus reached a creditable position in our profession are confronted with the fact, for fact it is, the past is not the present.

Once we made our own pills, plasters, tinctures, syrups; there were but few fluid extracts and no elixirs. Elegant pharmacy was unknown. Now the plaster iron is nearly as great a curiosity as a hand spinning wheel or the old tin lantern. We purchase our pills ready made and

^{*}At the present day, those of the younger generation, even if not convenient to one of the teaching institutions, can avail themselves of the excellent series of lectures issued by C. S. Halberg, of the National Institute of Pharmacy, Chicago. This is a superior series of papers and I study each lesson as it appears, with interest and advantage, and commend the set to my professional friends.

in bottles; our fluid extracts are supplied to many of us without more trouble than the extracting of a cork; tinctures and syrups are more or less obsolete, being replaced by pharmaceuticals that are perhaps not made by pharmacists. Are these not facts? Do I overestimate when I say twenty years only has thus altered our ness and our business methods? We have striven to repel the invasion, we have resented each innovation, we have attempted to devise methods whereby pharmacists could continue in the beaten path, but I am now of the opinion that we have been combatting the Do we lament this change? It matters not if we do. inevitable. Shall we sour upon the word and make it unpleasant for others because of changes that happen in a world where is all change? What benefit follows? The tide is moving into new channels—we must either move with it or drown. A fish will drown in water if the current is swift and the fish is forced to stand still and face it. Growling will not help us. Whether we like the weather or not, we must meet it. and unless we do meet the changes in methods we will suffer. Have we not examples of honorable and persistent men holding on to olden times, and do we not in every old city note the result? We may crawl into an old-style store; we may keep a jar of snakes and lizards in our front window; we may thrust at each physician that pharmacy is degenerating, and we may growl at the condition of affairs as compared with the olden time. Our former patrons will one by one move away; the aged physician will die; the modern physician will propose to administer what he pleases, as he pleases; the modern patron will insist upon getting medicines where there is sunlight and pleasant words; where perfumery, stationery, and cigars are sold, if you please, and even candy. Thus we will become a relic of a former period, and our families will suffer, perhaps, because we refuse to learn that the world will not walk backward in the path our preceptor did. These lessons are every-day ones and painful, too. Struggle as we may, such facts are incontrovertible. Finally, we will become sour and crabbed and either snarl at a few who care nothing for us and irritate, by smiling at us, or will give up the business in disgust. Then our lizards and musty herbs, our snakes and old style ointment jars will be carted to the dump and a man of the present, (perhaps not a pharmacist, but employing one,) will paint the store and

modernize the fixtures; will invite the sunlight and the people. A new business will then appear, and patrons will occasionally smile as they speak of the peculiar old pharmacist who refused to move on, whom the ladies shunned, the children shuddered at, the men passed by and physicians detested.

Doubtless the majority of us will modernize ourselves under the pressure of circumstances, and accept the good old Baptist doctrine of "what is to be will be," and move on with the throng; but I suspect that each locality will have its relic. To me there is something touching in this isolated, quaint and persistent man who refuses to read the handwriting, covers his face at the present, turns his back to the future and lives in the past. I view him as a man of opinions and a man of courage; a man who dares to do what he believes to be right and perhaps suffers to maintain the standing of his profession as he views the matter and uphold the name pharmacist where there are, as he believes, so few pharmacists. Do not doubt his honesty; do not doubt his motives; he is very sincere, and if you will become acquainted with him you will find that from his store of knowledge there is much to learn that you cannot get elsewhere, and you will find him far from being as cross and petulant as the world believes Perhaps he is not even sad, for he may carry in mind the prosperous pharmacy days of former years and review them with pleasure. He may not be companionless; more than one aged friend will be found to spend hours in his dingy shop, and together they enjoy themselves with few interruptions. In his family he will be found undoubtedly loved, perhaps deemed peculiar but nothing more, and it may be that you will find that his shop is his recreation and that he enjoys the apparent misery of his den. You may find that it would be fatal to disturb him.

Perhaps some persons may think that I have pictured an ideal figure, but others will refer to some character who may be faithfully portrayed. Not one city, but all that are of any age, have these connecting links between the past and the future; not one such man exists alone, there are many.

We look at this picture of the old, old time and forget ourselves. We think that we learned the modern part of the profession of pharmacy, and forget that history repeats itself and that the hand is still writing as in the past; that the years fly swiftly. We think that only the old-style pharmacist can be obsolete, and at the same time we unconsciously growl at the innovations of the young generation. We oppose the "new-fangled notions," and we may combat the new ideas of pharmaceutical education and compare them with the day we were apprentices. Some of us may oppose college learning and condemn the fact that pharmaceutical journals thrive and multiply, referring to the time when in our younger days one journal issued every two months was sufficient for the country, and but two colleges of pharmacy struggled for existence. We may even sneer at the term Ph.D. and Ph.G., and begin to travel in the old, old path that leads to growling at everything modern, and eventually to an isolation where we will serve the coming generation as a zoological specimen, perhaps doing good in an educational manner as exhibiting the difference between the pharmacist of the past and of the present.

I would not have any one think that this is written as a trivial matter. It is not. I am not disposed to make light of such facts, and in my description I have endeavored to confine myself to what I view as facts. I would not thrust a pin into myself, as I really do, when I think of the progress (?) in directions that rub against the grain, because, it is painful to the flesh. It is necessary, though, I think, that we should look at ourselves occasionally, and I ask if we are not traveling the beaten road? Do we not criticise the present method of filling our stores with sugar-coated pills, with gelatinecoated pills and capsules? Do we not often oppose the ready-made plaster and lament the days so recently passed away when pharmacists were pharmacists? And do we not sometimes attempt to devise methods whereby the hands of Time may be turned backward and the old styles detained? Do we not think of the time when a few officinal tinctures and syrups, with our staple chemicals and crude roots, barks and herbs supplied us with material with which to fill all prescriptions? Do we not sometimes in a period of vexation sneer and snarl over these, useless to us, so-called elixirs of the present, and do we not get out of patience when physicians prescribe a preparation made by some particular person (not in our opinion a pharmacist) to the neglect of our own preparation that is in our opinion better? Have not some of us tried to check the wheels of progress, (in our opinion so-called progress,) and have we not occasionally limped to our dens with a crushed toe while the wheel rolled on? Is it not true that many of us have fruitlessly opposed these innovations as they have swept over the country, and that we have viewed with detestation, (perhaps still do,) the great factories where men who perhaps never have pretended to be pharmacists make medicaments, and then under our very protests force us to use them? Have we not sometimes become irritated at a gentlemanly solicitor whose every attempt to dispose of his wares demonstrated the fact that he was not in the least acquainted with the first principle of their production or their properties, and yet whose unpleasant duty it was to travel over the country to encourage us to use them instead of our own?*

Have we not more than once rebelled, and is it not usually to no purpose?

I am speaking now to a body of pharmacists who, as a rule, must perceive that these are facts. We stand together, and I, for one, realize that slowly but surely we will become antiquated if we refuse to move onward, and I know that we are moving onward, and that we struggle to prevent ourselves from being covered with incrustations and to avoid foscilization, we must take the pharmaceutical journals, not one, but several. We must read and study them, and there is something to be learned in the advertising columns as well as the body of the journal. We must study indications and take advantage of each twist of the weather vane. The majority of us will be able to pass on with credit, we must do so if we keep in the path, but it will require an effort, while doubtless here and there an obstinate man will step aside and cling tenaciously to the olden time and serve the coming generation with an example of the pharmacist of other days. We must accept that our pills, ointments, plasters, chemicals, flavors, perhaps even some emulsions, syrups and tinctures will be made for us by men we call artisans. We must become artisans if we

^{*}More than once I have cautiously shown a solicitor the error of his belief or have endeavored to instruct him to his advantage. Sometimes these interested gentlemen have gone with me to my laboratory and have been thankful for the attention. Traveling agents, as a rule, are gentlemen; they learn and teach, and help to move the world of commerce and of ideas. In turn I am often instructed by them.

compete, and we must, perhaps, adopt their methods or perish as progressive pharmacists.

Our future field as pharmacists serms to be in mixing and supplying such substances as we can carry to advantage in our stores, unless the science broadens, or we step into specialty making; and to oppose these innovations seems to be to slap at the hand of destiny that is writing on the wall so that "he who runs may read." To many these changes in our profession are unconscious and uncared for, but to many others they are painful, very. I am led to these remarks by the seemingly universal feeling among old pharmacists, that the profession is becoming demoralized. The change has not been abrupt, it is gradual; but as we make comparisons between intervals of time, it appears to have been made by jerks. In my opinion, we must be prepared to meet as great a revolution, (advancement or retrogression as you view it,) in the near future as in the past.

I can see that we will continue to suffer, and those who rebel will do so at the expense of aching hearts. That our profession is not in a condition to rest on its oars, is evidenced by the attention physicians give to new ideas and new remedies; by the facility with which the grocery or dry goods men adapt themselves to the absorption of sections of pharmacy or so-called pharmacy, (which lives nevertheless;) by the obsolete remedies of the past, and those of the present that are nearly stagnant on our shelves; by the synthetical chemicals, (patented, if you please,) that are displacing Nature's products and that take from us a demand for old-fashioned pharmaceutical manipulation. These and other causes lead me to believe that unless we move quickly we will fall behind, and that instead of kicking against the pricks, it behooves to be graceful and accept that the hand of destiny is writing.

Finally, I will add that those who oppose this continual change are, as a rule in my experience, the best of pharmacists; educated, thinking men, who have a foundation for their arguments, whom all should honor, and in no wise should their earnestness be questioned. Often (usually) these men begin the study with superior educations and maintain their position to the end and are aware of their advantages. I venture to say that in nearly every instance it will be found that these tenacious men are well informed, and that it is not because of

ignorance or indolence that they refuse to gracefully accept present methods, but because of honor to themselves and respect for their profession. Some live in constant hope that the pendulum will swing back again; some may even think they observe indications of a change, but I will confess that it seems to me as though the past will not return in this generation. The methods and means by which medicines are made, sold, prescribed, advertised and dispensed appear to me to pass each year further from the accepted legitimate pharmacy of other days—and with irresistible motion.

· PRESSED HERBS.

BY JOSEPH FEIL, PH. G. Cleveland, O.

QUERY No. 5.—What is the general quality of the Pressed Herbs of the market?

Pressed herbs and parts of plants can be found in every drug store in this country, and while not having a great sale, yet the aggregate must count up to a very large number of pounds during the year. The pressers of these goods are energetic business men and have succeeded in introducing their wares not only to the retail trade, but even many jobbers prefer to handle nearly all crude vegetable drugs in this form.

The advantages of the pressed goods are evident enough: the goods are clean, neatly put up, there is no loss in weight, usually packed when fresh, and when impressed with the name of a reliable house, can be depended on for at least a fair and usually an excellent article. The extent to which this branch of the drug business has grown can be inferred from the variety of drugs thus put up by the different firms, counting three lists I obtained the following totals, viz: 418, 397 and 276.

While the kinds pressed are many, yet only about twenty have any extended sale. The following list of the very salable ones is compiled from information obtained from the following firms, to whom I am also indebted for other valuable information contained in this paper, viz: Parke, Davis & Co.; Allaire, Woodward & Co.; B. O. & G. C. Wilson; Peek & Velsor; Cheney & Myrick; Walter Adams & Co. and Liebman & Butler.

The order is in proportion to their sale

21 12	in proportion	to their said	:.	
ı.	Boneset.		II.	Hops.
2.	Catnip.		I 2.	Stramonium.
3⋅	Hoarhound.		13.	Elder Flowers.
	Pennyroyal.		14.	Scullcap.
5. 6.	Sage.	·	15.	Foxglove.
6.	Tansy.		16.	Spearmint.
7.	Peppermint.	•	17.	Dandelion.
8.	Mullein.		ı 8.	Burdock.
9.	Thyme.		19.	Golden Seal.
10.	Wormwood.	•	20.	Lobelia

All the firms report No. 1 to 7 inclusive as the best sellers, and one firm says: "Canada uses especially large quantities of Mullein, Lobelia and Stramonium."

It was impossible to examine packages of all these and of the different pressers, hence whichever could be obtained from retail stores of Nos. 1 to 7 of different firm's packages were examined.

The packages, as a rule, are very neatly put up and distinctly labeled, and frequently synonyms, German and French names, medicinal properties and doses were stated.

The weight was full in all cases and in a few instances paraffine paper was placed around the herb inside the outer wrapper.

The synonyms given were taken from the packages, and are given as a matter of curiosity.

Abbreviations used: Wilson, B. O. & G. C. Wilson, Boston; P. D. & Co., Park, Davis & Co., Detroit; A. W. & Co., Allaire, Woodward & Co., Peoria, Ill.; C. & M., Cheney & Myrick, Boston; L. & B., Liebman & Butler, New York; M. & N., Murray & Nickel, Chicago; Botanic Garden, (firm unknown.)

BONESET.

Synonyms: Thoroughwort, Ague Weed, Vegetable Antimony, Crosswort, Feverwort, Indian Sage, Sweating Plant, Thoroughstem, Thoroughwax, Tearel, Thorough Root.

Wilson.—About 1 per cent. spider webs, etc., color bright green, odor good, leaves somewhat thinner than others.

- P. D. & Co.—2 per cent. foreign stems, straw, bits of bark, etc., 4 per cent purplish leaves, color dark green, odor good.
- A. W. & Co.—1 per cent. foreign stems and barks, 2 per cent. discolored leaves, color green but not bright, odor good.
- C. &. M.—6 per cent. stems, bits of strings, etc., color bright-green, odor good.

Few fruits were found in all the above.

CATNIP.

Synonyms: Catmint, Catwort, Bamfield, Catswort, Field Balm. Wilson.—Clean, bright-green, much fruit present, excellent.

- P. D. & Co.—3 per cent. medium sized stems, bits of dried leaves, etc., greenish-gray, flowers and some fruit present, odor strong.
- A. W. & Co.—4 per cent. rather thick purplish stems, feathers, oats, etc., grayish-green, more fruit than flowers, odor strong.
- C. & M.—2 per cent. rather thin green stems, color bright-green, fruits quite numerous, quality good.
- L. & B.—3 per cent. thin green stems, greenish with shade of gray, flowers and fruits abundant, quality good.

HOARHOUND.

- Wilson.—1 per cent. straw, etc., color good, mostly leaves, odor strong.
- P. D. & Co.—5 per cent. coarse stems, 1 per cent. foreign matter, color slightly dark, leaves not very wooly.
- A. W. & Co.—1 per cent foreign matter, color good, mostly leaves, not very wooly.
- C. & M.—4 per cent. very coarse stems, 1 per cent. oats, etc., color very bright green, very wooly.
- L. & B.—1 per cent. straw, etc., color, bright, very wooly, nearly all leaves, odor strong.
- M. & N.—15 per cent. stems, color dull grayish-green, scarcely wooly, odor poor, quality very poor.

PENNYROYAL.

Synonyms: Squaw Mint, Stinking Balm, Thick Weed, Tick Weed. Wilson.—Clean, bright-green, nearly all leaves, odor strong.

- P. D. & Co.—Clean except ½ per cent pebbles, color green, nearly all leaves, odor strong.
- A. W. & Co.—2 per cent dried leaves, earth, etc., 5 per cent thin stems, lightish-green, odor strong.
- C. & M.—2 per cent. stems, dried leaves, etc., 10 per cent. thin stems, color green, odor strong.
- L. & B.—5 per cent. barley, red earth, straw, etc., green, nearly all leaves, odor very strong.

SAGE.

Wilson.—Greenish-gray, nearly all leaves, odor fair.

P. D. & Co.—2 per cent. foreign stems, color grayish-green, nearly all leaves, odor good.

L. & B.—Grayish green, nearly all leaves, odor very strong.

No name.—Half very coarse stems, leaves coarse, odor weak, quality very poor.

TANSY.

Synonyms: Double Tansy, Hindheel.

Wilson.—10 per cent. small green stems, color very bright-green, odor fair.

P. D. & Co.—4 per cent. coarse stems, wilted leaves, etc., color good, odor strong.

A. W. & Co.—Many dried and discolored leaves, dark green, odor fair.

C. & M.—6 per cent. very coarse stems, bright-green, odor strong.

L. & B.—5 per cent. coarse stems, etc., dark green, odor fair.

Botanic Garden.—50 per cent. very coarse purple stems, scarcely a trace of odor, quality very poor.

PEPPERMINT.

Wilson.—Clean, color dark-green, odor good.

P. D. & Co.--Clean, color green, odor strong.

A. W. & Co.—4 per cent. purplish stems, dark green, odor good.

C. & M.—7 per cent. bright purple stems, color very bright-green, odor fair.

L. & B.—2 per cent. stems, green, odor good.

From the descriptions it is hardly possible to tell fully just how much the herbs differed from each other, for there are many things tangible to the eyes and nose in this case, that are nearly impossible to describe, but taking an absolute grade as 100, the following table will give relative value of these goods.

Wilson, -			98.
P. D. & Co., -		-	95.
L. & B., -	-		94.
A. W. & Co., -		-	90.
C. & M., -	-		88.
M. & N., -		-	50.
Botanic Garden,	-		25.
No. Name		-	20.

CONCLUSIONS.—

- 1. The pressed herbs of the market are true to name.
- 2. The general quality is good, especially those sent out by reliable houses.
 - 3. It is possible to get almost ideal goods.
 - 4. Goods without the name of a known firm should be rejected. •
- 5. When kept for sometime in stock they are better preserved than loose herbs.

Mr. Rosewater—Were these herbs just one lot from each house, or were they gathered at various times? That is, take for instance, Horehound—were they taken from different lots of the same firm's goods at different times of the year sent out, or were they simply accidentally taken at one time?

Mr. Feil-In reply, I will say it is various. I could not find, sometimes, dealers in the city who had more than one of each kind, But I tried to make examinations of different packages. These examinations were made within the first four months of this year, from January to May. I am led to believe that these houses get their stock in during the time the herbs are gathered fresh and pack them at that time. However, that this would not affect the quality much would be gathered from a paper recently prepared by Mr. Todd-Mr. Todd, who is a large distiller of peppermint oil, thought he would test the herb after it had been gathered for some time. he gathered some and divided it into two parts. One part he distilled immediately after he gathered it, and the other part he kep He found the relative proportions of oil and dried for six months. to be practically the same. The dried herb, however, yielded a slightly smaller proportion. On the other hand, he considered there

was more menthol in that, and on the whole his conclusion was that the oil distilled from the dried herb was better. Judging from the goods as an average, each house seems determined to put up a certain quality, and they put up just that quality. For instance, take Wilson's herbs. When I took them and put them all together I could see generally that their herbs were better in color than the It has been suggested that some of the firms could put some. of the essential oil of the herb to it. I doubt it, but of course it could be done. And they have taken far more pains to take out the stems than the others. And so through the list; whereas, those without any name were very poor. It almost seemed as though they had purposely added stems to the herbs to increase the weight. judge that each firm has a standard which it pretty well adheres to. This information, you will please take notice, is from my own examination. I have no knowledge from any of the houses. only knowledge I have from the houses is in regard to those herbs which they sell. I supposed that very many of the herbs had a large sale for the reason that the houses quoted so many, but I found that very few had a large sale, and still fewer had an extensive sale.

The President—We have representatives of a few of those houses present with us. We would like to hear remarks from some of these representatives. There is a member of our own Association here from whom we would be pleased to hear.

Mr. Bellermann— Mr. President and gentlemen, I am very much pleased with this paper. In fact, I should commend it to other members of the Association, that when they are reading a paper comparing goods on the market, it would be much better for each firm if they would make a statement as to what firm was being commented on. If anybody is doing good, it gives that man credit. I am pleased to hear that B. O. & G. C. Wilson have deserved their reputation. I believe that they are generally acknowlndged to issue the finest herbs, and at the same time they ask the highest price. I do not think that Parke, Davis & Co. have endeavored to create the reputation that Messrs. Wilson have. They have endeavored to give you the drug just as the Pharmacopæia, if it is official, indicates it should be. That is, if, in the case of boneset, for instance, the flowering tops are ordered, they give you the flowering tops. If in

OHIO STATE PHARMACEUTICAL ASSOCIATION.

gathering those tops there should be stems, of course they are included. As the gentleman reading the paper said, each house seems to make a special standard for itself, and speaking of Parke, Davis & Co., particularly, I think that is about the standard that they try to produce. In regard to keeping the drugs—the suggestion of Mr. Rosewater that they should have been examined in different seasons of the year—I do not think that that would have made any difference. I know, in our case, our endeavor is to obtain our supplies at the season of collection. With that object in view, we have recently established an agency under the superintendence of Prof. Hand, at Charlotte, N. C., for the purpose of collecting the crude material in that district at the proper season. We could not depend upon the wholesale drug market for our supplies; it is entirely too uncertain. I should not be a bit surprised if other dealers do likewise.

POWDERED OPIUM.

BY JOHN J. BUEHLER, Cincinnati, O.

QUERY No. 12.—Is Powdered Opium, sold in bulk, up to the Pharmacopæial requirements?

Until about two years previous, all powdered opium supplied to the retail trade, was furnished by the wholesale dealers, in paper packages mostly, or in bottles, which were simply labeled according to contents without reference to percentage strength in morphine.

The last revision of the Pharmacopæia requires that powdered opium shall contain not less than 12 per cent. nor more than 16 per cent. of morphine, when assayed by a process which it gives.

About two years ago, the principal drug-millers, to furnish an article complying with the officinal requirements, began to supply this drug in sealed packages of one pound or less, the label bearing the percentage value of the contents in morphine.

The distribution of powdered opium in this manner has become almost universal, so that only a small part of the total is sold in bulk, that is, not under an assay label or one giving some indication of the strength of the sample, and this has come to be looked upon with suspicion. Hence the query, is powdered opium, sold in bulk, up to the Pharmacopoeial requirements?

Inquiry of the best wholesale druggists of this city revealed the fact that powdered opium, bought and sold by them in bulk, was obtained by them from the same drug-millers that supplied them with the article in original packages bearing an assay label. Powdered opium, "in bulk," as obtained through reliable dealers, should, therefore, be identical with that sold under an assay label, and assays of commercial specimens show this supposition to be, at least approximately, true.

Eighteen samples of powdered opium, either prepared or sold by Powers & Weightman, McKesson & Robbins, Lehn & Fink, Dodge & Olcott, Wm. S. Merrell Chemical Co. and Lloyd Bros., were assayed by the U. S. P. process, the results appearing in the following table, in which specimens not bearing an assay label, or other indication of morphine strength, are classed as "bulk."

			Morphine Per Cent.				
Number of Specimen.	Maker or Place where Vender. obtained.		U. S. P.	PROCESS.	Squibb's Pro-		
_			Indicated.	Found.	(Calculated.)		
I	A	New York	Bulk.	14.0	15.61		
2	A	New York	Bulk.	13.6	15.16		
3	в	Cincinnati	13.0	13.0	14.50		
4	В	Cincinnati	U. S. P.	13.0	14.50		
5	В	Cincinnati	U. S. P.	13.0	14.50		
6	c	Cincinnati	13.0	11.0	12.26		
7	c	Cincinnati	13.0	11.0	12.26		
8	c	Cincinnati	13.0.	11.0	12.26		
9	C	Newport, Ky	U. S. P.	12.0	13.38		
10	с	Newport, Ky	U. S. P.	11.6	12.93		
11	D	Cincinnati	Bulk.	11.0	12.26		
. 12	D	Cincinnati	Bulk.	11.0	12.26		
13	E	Brookville, Ind	U. S. P.	13.0	14.50		
14	E	Brookville, Ind	U. S. P.	13.4	14.95		
15	F	Cincinnati	Bulk.	10.0	11.15		
16	F	Cincinnati	Bulk.	10.0	11.15		
17	F	Cincinnati	Bulk.	10.0	11.15		
18	F	Ċincinnati	Bulk.	11.0	12.26		

Inspection of the table will show that a part of those classed as bulk are much below the lowest limit of officinal strength. As these are very uniform in percentage of morphine, (10 per cent.,) they were probably sent out by one drug-miller, but neither the maker nor the seller could be identified. The remainder equal in strength the samples sold under an assay label.

According to the law regulating the importation of opium, no opium can be admitted into this country that contains less than 9 per cent.

of morphine. As opium nearly always contains very near 20 per cent. of water, the powdered drug must contain not less than 11.25 per cent. morphine.

Of the commercial powders assayed for this paper, one-half contained less than 11.25 per cent. morphine—six, 11.0 per cent., and three, 10.0 per cent.

Were these samples reduced or adulterated by addition of other material?

As the proportion of water-soluble matter was not estimated, or other tests of purity made, the only reliance, in answering this question, is the percentage of morphine.

The U. S. P. process of estimating morphine in opium, gives results which, while very constant, are at the same time much below the truth. Other methods yield products of equal purity and in much greater quantity, the results being equally constant. And the best of these, in the experience of the operator, is that of Dr. Squibb. That used by the Government examiners differs from this chiefly in the use of hot water in extracting the drug. Hence, we may safely compare the U. S. P. process with that of Dr. Squibb for the purpose of determining the actual morphine strength of these samples and, therefore, their probable purity.

A sample of pure powdered opium gave, in a number of assays by the U.S. P. process, for the highest result, 13.02 per cent. morphine, and for the lowest, 12.99 per cent., thus containing just 13.00 per cent. morphine. It was then assayed by Dr. Squibb's method. the first assay, the time of precipitation was extended to 15 hours, when the crystals were collected, washed and dried. The weight indicated 14.65 per cent. morphine, but the product was not entirely soluble in lime-water. A second assay, stopped at 12 hours precipitation, gave 14.57 per cent., the matter insoluble in lime-water amounting to about one-half that of product of first assay. made under the same conditions, gave 14.58 per cent. In the fourth, the time of precipitation was extended to 36 hours. showed much over 15 per cent., but a very large part of the precipitate was insoluble in lime-water. These results showing that in all cases the time of precipitation was too long, by which other substances than morphine were thrown out of solution, a fifth assay was

made. The mixture was frequently shaken during the first hour of precipitation, and the crystals collected at the end of 9 hours. The product equalled 14.4 per cent. and was completely soluble in lime-water. The result is, doubtless, too low. This powdered opium, therefore, contained about 14.50 per cent. morphine, or 11.5 per cent. more than was shown by the U. S. P. process.

If this addition be made to the 11.0 per cent. samples, they will show 12.26 per cent. and will be within the officinal requirements, though not in all cases up to the percentage claimed. The 10.0 per cent. samples will show 11.15 per cent. This figure is so near 11.25 per cent. that the difference may be due to error of experiment, and the samples really be up to legal but not to officinal requirements. It thus appears that all these samples may be pure, although their purity is not fully made certain.

From these data we conclude that commercial powdered opium sold in "bulk," as obtained through good dealers, is up to Pharmacopæial requirements and is identical with that sold in original packages or under an assay label.

There is also offered for sale a powdered opium, which, if pure, is produced from opium of the lowest grade, barely meets legal requirements and is much below the limit of officinal strength.

With this exception, all powdered opium sold in bulk is fully up to the officinal requirements, and its quality is assured if it is obtained through responsible dealers.

COMPARATIVE SOLUBILITY OF BRANDS OF EXTRACT OF LICORICE.

BY E. GOODMAN, Cincinnati, O.

QUERY No. 14.— What is the Comparative Solubility of the different Brands of Extract of Licorice?

This is rather a personal question, but I do not intend to make it such. To begin, would like to make a few preliminary remarks as to the conditions under which the examinations were made. I neither favored nor was prejudiced toward any particular brand or brands; the examinations were made impartially and as accurately as it was possible for me to do. I adopted three different methods. I could not give my undivided time to this, but the work upon it had to be sandwiched in between the routine work of the store.

I tested all the various brands I could obtain, viz.:

P. S. Corigliano, Solazzi, Y. & S. Scudder, M. & R., L. & F., Powdered Licorice and Licorice Lozenges.

With the object in view of obtaining "Purified Extract of Licorice," I exhausted 1 lb. (Av.) each of the first six named brands of Licorice. I started all six at the same, in the room and in the same sized percolators, so as to make all the conditions alike in each. Having broken the Licorice into pieces about 1 or 11/2 inches long, and split each piece lengthwise, I packed each brand in a quart percolator, the neck of which was fitted with a plug of absorbent cotton. For each pound of Licorice I used 1 oz. of clean, Excelsior packing, putting in alternate layers of Excelsior and Licorice and a layer of Excelsior on top; then stopped the orifices of the percolators with corks and filled each with water. Drew off the solution after 15 hours, for the first three days, then every 30 hours for the rest of the week. The second week, I drew the liquor off every 48 hours; after that every third day for four weeks longer. Reserved the first two gallons of concentrated solution and evaporated the rest on a water bath, as fast as it was drawn off. After six weeks most of the brands were almost entirely exhausted and the others nearly so; could not continue the

percolation any longer on account of the fermentation which began to set in. After allowing the masses to drain in the percolators, dumped each out upon a separate piece of paper and covered them with the same; placed 3 at a time upon a large board, alongside of the stove to dry. After 4 or 5 days, when the mass was so dry as to break readily between the fingers, I weighed each separately, allowing 1 oz for the Excelsior, with the following results: P.S., 25.1 per cent., 28.7, 29.8, 27.8, 29.26, 30.8 per cent. the first three being foreign brands, the latter three, domestic. Being a little dubious about the results, fearing that some of the finer particles might have passed through the cotton, I determined upon a verification process, by macerating one Troy oz. each of the above brands, as well as one Troy oz. of Powdered Extract of Licorice and Licorice Lozenges, and then filtering through paper. The remaining brand, whose precipitate was exactly similar in appearance and weight to the one, which characterized itself from all the others, by producing a nearly white, very fine precipitate, while the other precipitates had a sandy or muddy appearance, is undoubtedly the same Licorice, but branded with the name of the firm for whom it was made. I macerated the Licorice reduced to fine particles, for 10 days in quart packers, filled with water, shaking occasionally; then filtered through weighed filters and dried the same upon a water bath until they ceased to loose weight. The filtrate I treated with Sulphuric Acid to precipitate the Glycyrrhizin, and the results being only relatively required, it was not necessary to purify the Glycyrrhizin, as the relation would still remain, but would only reduce the quantity, which was already small. The results in the foreign brands differed but slightly from the original method on 14½ times the quantity, but in the domestic brands there was quite a difference, with the exception of one brand, the Y. & S. The reason for this is seen in the process of maceration, the residues of the imported Licorices being in flat scales, while that of the domestic are very fine, heavy, pulverulent and will therefore readily pass through the septa. Let us first tabulate results and then draw conclusions:

Insoluble residue from 11b (Av.) Licorice by per cent.			Insoluble residue from 3 (Troy) same Licorice by maceration.			Glycyrrhizin from Corresponding Licorice.					
P. S.	25.1 p	er cent.) ē	P. S.	26.25	per cer	nt.) =	P. S.	5	per cent.	
	28.7	46	Imported.		26.85	"	Imported		4.93	"	Imported
	29.8	**) #		26.67	**	月直		6.5	"	
	27.8	"	ن (42.08	**	١		9.3	"	١
	29.26	44	Domestic.		37.05	**	1		9.5	46	stic.
Y. S.	30.8	46	å	Y. S.	29.00	44	stic	y. s.	10.0	41	Domestic.
			,		42. I	44	Domestic.		9.3	")"
				Powdered	32 . 3	44	1	Avera			filter
				Lozenges	40.0	"	1	only	destro a tra	oyed by a ce.	icid;

From these results one would naturally conclude that the foreigners exhaust their Glycyrrhiza without the addition of an Alkali, while the Americans add an Alkali to their menstruum. The reasons are twofold:

- 1st. The domestic brands contain nearly double the amount of Glycyrrhizin of the foreign brands.
- 2d. The imported Licorice, not being treated by an Alkali, the menstruum does not so completely dissolve out the gluten, thereby retaining the starchy matter in an agglutinative state, in which condition it does not so readily pass through the septum, as shown in the scaly, tenacious residue of the foreign, contra the pulverulent residue of domestic brands.
- 3d. From what little experience I have had in making Extractum Glycyrrhizae Purum, U. S. P., I find that considerable extraneous matter comes from the cortical layer of Glycyrrhiza.

If these conclusions of mine prove correct, then Ammonia, while it facilitates the solution of Glycyrrhizin, also facilitates the introduction of starchy or insoluble matter.

The foreign brands are the best from a commercial standpoint, while the domestic excel them as pharmaceutical products. The former, besides being more soluble, also have a richer flavor, whether natural or artificial, I am not prepared to say; they also give dark brown transparent solutions, while the solutions of the domestic brands are lighter and opalescent, which may be another sign of the presence of gluten. From the foregoing it will be seen that the *relative* solubility and value narrows down between foreign and domestic brands, those from the same continent being about of equal value.

Time required—from first week in February to first week in June.

BY'S. W. MCKEOWN, Youngstown, O.

QUERY No. 14.—What is the Comparative Solubility of the different Brands of Extract of Licorice?

Five specimens were taken for examination. One-half gram of each brand was weighed for the purpose of determining the soluble and insoluble matter. After digesting in pure distilled water for 24 hours at a temperature between 60° and 70° Fah., and with occasional stirring, the solution was filtered through No. 1 Swedish filter paper, the insoluble washed with water and thrown upon the filter and all washed until the washings came through the filter colorless. The insoluble portion, together with the counterbalanced filters, through which it was filtered was then dried in a hot water oven until weight was constant. The aqueous solution was evaporated to complete dryness in a tarred platinum dish and weighed. The loss was assumed to be water. The results were as follows:

	Insoluble.	Pure Extract.	WATER.
Coriglian	25.20	60.30	14.50
Scudder	34-77	56.36	8.87
Y. & S	24.65	58.46	16.89
Lehn & Fink	31.08	54.60	14.32
Mellor & Rittenhouse	31.03	60.15	8 82

In the Mellor & Rittenhouse, Lehn & Fink and Scudder brands, the insoluble was found by means of the microscope to be largely composed of Corn Starch, while Wheat Flour was recognized in the Y. & S. No Starch grains could be detected in the Corigliano.

In order to estimate the *Glycyrrhizin*, 2 grams of each specimen were treated as before described, with pure distilled water, filtered, and the Glycyrrhizin precipitated with Sulphuric Acid. The precipitate was filtered and washed slightly, redissolved in dilute Ammonia,

and again precipitated with Sulphuric Acid filtered through counterbalanced filters, washed with dilute Acetic Acid, dried in a hot water oven until weight was constant. • The process was repeated on another set of samples, using a 10 per cent. solution of Ammonia to exhaust the drug. The following results were obtained:

	Glycyrrhizin with pure water.	Glycyrrhisin with NH 4.
Corigliano	2.90 per cent.	4.42 per cent.
Scudder	2.75 "	6.15 "
Y. & S	2.95 "	7.63 "
Lehn & Fink	8.40 ''	9.07 "
Mellor & Rittenhouse	8.37 "	8.92 "

It is not claimed that the Glycyrrhizin obtained by the above treatment was strictly pure, but it was thought that any attempt to further purify it would be attended with a loss greater than the impurity would amount to. Comparative results were all that was aimed at, and working unpon the same sample, they were found to be quite uniform.

A specimen of select Licorice Root was treated according to the process given in the U. S. Pharmacopœia for Extractum Glycyrrhizæ Purum, and the Glycyrrhizin determined by the Sulphuric Acid method. Results, as follows:

Pure Extract	 35.69	per	cent.
Glycyrrhizin	 5.31	"	"

The percentage of Glycyrrhizin to the pure extract is 14.86 per cent., equivalent to 8.85 per cent. of a commercial extract similar in composition and moisture to the Mellor & Rittenhouse.

It will be observed that in two of the brands of Extract of Licorice, from 56 to 62 per cent. of the Glycyrrhizin is *insoluble* in pure water; while in two other brands all but 6 to 8 per cent. is soluble without the addition of Ammonia.

It is a noticeable and curious fact that the highest priced brand of Licorice in the market contains the smallest percentage of Glycyrrhizin.

OLEUM MENTHÆ PIPERITÆ.

AZOR THURSTON, Grand Rapids, Ohio.

QUERY No. 15.—Test the Oil of Peppermint; is the Dementholized Oil sold as Pure Oil of Peppermint?

To answer the above query one would naturally look to the standard of authority, the U. S. P., for tests as to purity, etc. In doing so we find the following:

"A volatile oil distilled from Peppermint. A colorless, or yellowish or greenish yellow liquid, becoming darker and thicker by age and exposure to air, having the characteristic, strong odor of Peppermint, a strongly aromatic taste, followed by the sensation of cold when air is drawn into the mouth, and a neutral reaction, sp. gr. about 0.900. It is soluble in equal weight of Alcohol."

The above pharmacopœial description of Oil of Peppermint is similar to that given by a number of other volatile oils. The sp. gr. 0.900 is the same as given for oils of eucalyptus, spearmint and rosesnary. "A colorless, or yellowish, or greenish-yellow liquid with a neutral reaction" could be applied to nearly all of the volatile oils.

Nine samples of oil of peppermint were examined, as follows:

Alcohol. Reated on Paper.	Clear Solu- tion.	Milky. Leaves stain.	Milky. Leaves	Milky. Leaves	Volatizing Volatizing without stain.	Clear. Volatizing without stain.	Milky. Leaves stain.	Milky. Leaves stain.	Milky. No stain.
	Gear	, Wi	, K		. ฮ		W.	Wi	
Chloral Hydrate+ H ₂ SO ₄ + Alcohol.	Cherry Red.	Brownish Red.	Brownish Red.	Brownish Red.	Cherry Red.	Cherry Red.	Cherry Red turning Brown.	Cherry Red.	Red, immediately turning to Yellowish Brown.
Iodine.	Vapor invisible.	Vapor almost invisible.	Slight re-	Slight re-	Vapor invisible.	Vapor Invisible.	Vapor invisible,	Vapor iavisible.	Vapor Invisible.
Sol. Br. in CH Cls	Reddish- Violes.	Reddish- Vulet.	Violet turning Brown.	Reddish- Violet.	Reddish. Violet.	Violet turning Greenish.	Violet turning Brownish.	Violet turning Brownish.	Violet turning Blue.
Picric Acid.	Grass- Green.	Green.	Grass- Green.	Grass- Green.	Grass- Green.	Grass- Grass-	Grass- Green.	Grass.	Grass- Green.
Dil. Alcholic H Cl.	Rose-Pink.	Ross-Pink.	Ross-Pink.	Purple.	Pink,	Pink.	Pink	Pink.	Pink.
Con. H ₂ SO ₄	Brown turning to Violet.	Greenish Brown turn- ing Red.	Brown turning Red.	Brown turning Red.	Brown turning Red.	Brown turning Red.	Brown turning Red.	Brown turning Red.	Brown turning Red.
Alcohol+ HNO ₃	Blue to Violet.	Blue to Violet.	Blue to Violet.	Blue to Violet.	Blue to Violet.	Blue to Violet.	Blue to Viciet.	Blue to Violet,	Blue to Violet.
Nitric Acid.	Yellowish Brown, turn- ing Blue.	Yellowish Brown.	Brown changing to Violet.	Blue Violet.	Brown to Wolst.	Brown changing to Blue.	Brown changing to Blue.	Brown changing to Blue.	Brown changing to Blue.
.mdmuM.	H		9	+	20	v	7	∞	6

Nitric Acid test gives the best results by adding one drop of the acid to 40 or 50 of the oil. At first the color is brown, but turns blue or blue violet within one or two hours. The same color reaction is given with Nitric Acid and Alcohol. One drop of Nitric Acid to 20 or 30 drops Alcohol and one drop of the oil. Oil of Pennyroyal does not give color test with the above test.

Concentrated Sulphuric Acid (2 or 3 drops to 1 of oil) gives a brown color, with oil of Peppermint, turning to a fine red after some time. Con. H, SO4, produces same color with oil of caraway, mentha crispa, sweet marjoram, star-anise, mace, dill, juniper, cubebs, copaiba, sage, wintergreen, lavender, cascarilla, nutmeg, thyme, sandalwood, myrrh and parsley (Dragendorff,) Dilute Alcoholic Hydrochloric Acid, add r5 to 20 drops to 1 of oil in a test tube. Gives a red color, turning blue after a few minutes. Care should be taken to use dilute alcoholic HCl, as the concentrated will give very different results with different oils; for instance, with oil of turpentine, the concentrated alcoholic HCl would produce a cherry red color, while the dilute does not give a color test with oil of turpentine.

The dilute alcoholic hydrochloric acid produces a rose to a deep red or reddish violet with oils of cubebs, pepper, copaiha, cedarwood, cinnamon, nutmeg, thyme, laurel, sweet-flag and myrrh, (Dragendorff.)

Picric Acrid gives a deep grass green with oil of peppermint.

Solution of Bromine in Chloroform (1—20) gives rose, red or reddish violet with oil of peppermint. Same color re-action with oils of rosemary, fennel, anise, star-anise, cinnamon, nutmeg, thyme, parsley and myrrh, (Dragendorff.)

Iodine—Add 2 or 3 drops of oil to a few grains of re-sublimed iodine, very slight re-action with pure oil of peppermint, vapor almost invisible. This test is the one used to show the absence of oil of fireweed, oil turpentine, oil camphor and other terebinthinate oils, as they give brisk re-action with iodine.

Chloral Hydrate and Sulphuric Acid and Alcohol—Take 1 part H, SO₄ to 2 parts C₂ HCl₃ O.H, O, mix in a mortar; then add a few drops of Alcohol, stir until the mixture is clear. Use this mixture with equal amount of oil, the result is a fine cherry color with pure oil of

peppermint. If the oil is mixed with pennyroyal, the mixture turns to an olive green color.

Alcohol.—Oil of peppermint soluble in all portions in Alcohol, oil of erigerion, turpentine and eucalyptus gives a milkly color. Old oxidized oil of peppermint does not dissolve in all proportions in Alcohol, but gives a milky color.

Castor and other fixed oils leave a greasy stain when 1 or 2 drops are evaporated off from paper.

The samples examined were all of good quality, although they did not all give a clear solution with Alcohol. I think it was due more to age than to impurities. When heated on paper, five of the samples left a slight stain.

"Is the Dementholized Oil sold as pure oil of Peppermint?" This part of the question I have not had time and opportunity to answer by experimental work, but there is no doubt dementholized oil has been sold as pure oil in some sections of the country.

The following appeared in the Toledo Blade, January, 1887:

"MORE RASCALITY IN MICHIGAN.

"DETROIT, Jan. 29.—A warrant is out for the arrest of Daniel B. Newkirk for fraudulent dealings in peppermint oil. Newkirk is a resident of Wayne, this county, and has been purchasing oil from farmers and selling it in this city to candy-makers and others having use for it. Among his customers was a firm who used the oil for manufacturing menthol. It appears that for nearly three years Newkirk has bought back from this firm worthless dementholized oil, which was then sold to others in the city. The amount of fraud is not known, but it is believed to be about \$20,000."

Fritsche's freezing test is the one generally applied to detect dementholized oil.

Many papers, of late, have been published in reference to oil of peppermint and its adulterations. Among the latest are those of Dr. S. P. Duffield and A. M. Todd, in reference to the use of the polariscope in detecting adulterated oils.

For those that may wish to investigate the subject of oil of peppermint, I append a list of references: A Test for Oil of Peppermint, by E. C. Federer, Ph.C., "Pharmaceutical Era," Vol. I, p. 36; Oil of

Peppermint, S. P. Duffield, Ph.D., same, Vol. I, p. 67; Fraudulent Oil Peppermint, same, p. 95; Dementholized Oil of Peppermint, same, Vol. I, p. 135; Experiments with Oil Peppermint, by E. C. Federer, same, Vol. I, p. 137; Test for Oil of Peppermint, "Western Druggist," Vol. 8, 1886, p. 306; Oil of Peppermint, by Albert M. Todd, same, p. 366. This article may also be found in the "Proceedings Am. Pharm. Association, 1886, Vol. 34, p. 121, and "Pharmaceutical Record," Vol. 6, 1886, p. 363. A Strange Forgery on Michigan Peppermint, by Albert M. Todd, "Pharmaceutical Record," Vol. 6, 1886, p. 204. Essential Oil Papers: The Polariscope as a Revealer of Adulterations, "American Journal of Pharmacy," Vol. 59, 1887, p. 161. Dragendorff Plant Analysis—Action of Iodine on Oil of Peppermint, "Weekly Drug News," Vol. IX, p. 447; Oil of Peppermint — Resinification and Test for Removal of Pipmenthol, "Proceedings American Pharm. Association," 1886, Vol. 34, p. 541.

Dr. Lyons-Mr. President, we in Wayne county, Michigan, are particularly interested in Oil of Peppermint. It has been the practice of some manufacturers of Menthol, perhaps, (we won't say who; we don't know who,) to get rid of their refuse material, dementholized oil, to the farmers of Wayne county, and let it come back through the ordinary channels of trade as pure peppermint oil, which is liable to be a little weedy—that is, to contain a lot of fire weed. fraud has been carried on certainly, on a large scale, and I am very much interested, in common with others in our neighborhood, in getting at any new methods of determining whether oil of peppermint has been dementholized or not. This paper appears not to have given us anything new. I hope that any members of this Association or any others who want to investigate any particular subject will give us information on that problem. Of course, in making tests, the polariscope is very useful; but very few possess that instrument. is very easy to, make a test with the polariscope, of course. The trechometer is a new instrument which Dr. Duffield has been using, and with very good results, in determining the purity of oil of peppermint; but of course that has the same objections that the polariscope has. What we want is a practical test. The freezing test is one of the very best, but it is open to some objections. hope that some member of this Association will do work on that subject in the coming year.

MORPHINÆ SULPHAS.

J. GEO. SPENZER, Cleveland, O.

Notes on a Specimen.

For a year or more price lists have quoted a foreign manufacture of Sulphate of Morphine, at from 20 to 40 cts. discount on the price of other foreign and domestic makes. Jobbers, who were inquired of as to the cause of this, replied that the reasons were:

- 1. An effort to obtain patronage.
- 2. That it was heavy and in flakes and did not present that light, feathery form so much desired; but, that for all purposes of dispensing, it was exactly as good as the higher priced article. On these conditions, and following the example of many others, an ounce bottle was purchased for trial; it being for a time, almost exclusively used. After having used it for a period, and when making concentrated solutions as Magendies' hypodermic solution, it was noticed that a precipitate formed at once, or upon standing. This precipitate, which subsequently proved to be Calcium Sulphate, was filtered off and the clear liquid dispensed for hypodermic medication. Complaints, however, were soon lodged against it on the ground that when so used it quite often produced either a troublesome abscess, or a painful and indolent sore.

To ascertain whether it was the patient's peculiar condition, or the Morphine Solution which produced this effect, it was replaced by another make of Morphine, but no ill effects were noticeable; whilst in one case (Lumbago,) two abscesses were produced by separate injections of the first Morphine. Those who had used it think that after the calcium sulphate had been removed by filtration, the solution did not produce such bad results as when allowed to remain; as would be the case when it was made extemporaneously.

It was now in turn to determine the fault of the morphine, and to this end two other makes of sulphate of morphine were obtained for comparison. They will be called 1, 2 and 3. No. 1 being the morphine which caused the trouble, while Nos. 2 and 3 are the samples for comparison. The tests applied were—

- 1. IGNITION.— Morphine should volatilize entirely, (a residue may indicate calcium, magnesium or sodium sulphates.
- 2. CAUSTIC POTASH (a).—Morphine covered with a solution of caustic potash should give a clear solution, (absence of narcotine and codeine, etc.) (b) The solution should be colorless or of a faint yellow color, (absence of foreign alkaloids, sugars, etc.) (c) When heated it should remain odorless, (absence of ammonium salts.)
- CONCENTRATED SULPHURIC ACID.—If morphine be covered with concentrated sulphuric acid and gently agitated, a colorless or faint pink-tinted solution alone should result, (absence of foreign alkaloids and cane sugar.)
- 4. Reaction.—If a crystal of morphine be placed upon a moist piece of red or blue litmus paper, no change in color should be produced, (absence of acids or bases.)
- 5. Ammonium Oxalate.—An aqueous solution of morphine should remain unaltered by ammonium oxalate, (absence of lime.)
- Ammonium Phosphate. An aqueous solution of morphine should not be effected by ammonium phosphate, (absence of magnesia.)
- 7. Alcohol.—Should give a perfect and clear solution.
- 8. WATER.—Should give a clear solution.

SCHEDULE.

REAGENT.	SUBSTANCE SOUGHT FOR.	I	2	3
Ignition	Calcium and Magnesium Sulphates		≥8°/° None.	.10°/。 None.
Caustic Potash	Narcotine and Codeine		None.	None.
Sulphuric Acid	Ammonium Salts		None.	None.
Reaction	Acids or bases	Acid.	Neutral.	Neutral. Faint
Oxalate Ammonium	Lime		Some.	trace. Faint trace.
Alcohol	Insoluble substances	Yes.	Yes.	None,
Water	Insoluble substances	Yes.	Yes.	None.

The results of the examination and the effects which the morphine produced, were communicated to the jobber from whom it was obtained. In replying, he said they had had complaints from nearly every customer to whom it had been sold; some stating that in subcutaneous injection alone had it been found faulty; and in conclusion he said they would no longer keep it in stock. From the schedule it will be seen that the morphine No. 1 had an acid reaction and contained calcium and magnesium sulphates. This alone might be explanation enough for the trouble produced, as it is a well-known fact that acid and concentrated injections will produce abscess; but perfectly neutral, weak and harmless hypodermics, in certain impoverished conditions of the blood, as rheumatism and gout, may do likewise.

ETHYL NITRITE.

J. GEO. SPENZER, Cleveland, O.

Some Experiments on the Color, Boiling Point and Specific Gravity.

Last winter, while engaged in the preparation of Ethyl Nitrite in somewhat large quantities, the conflict of authorities and text books upon the boiling point, color, and specific gravity, which I had observed several years ago, while preparing some experimentally, occurred to me, and I decided to follow a line of experiments, which, although not expecting to alter the dispute one way or another, I hoped would give a happy medium of results upon these points. How well I have succeeded, I leave to your kind consideration.

A short description of the methods used, and a few criticisms on the processes, may be of interest. The methods employed were—

- 1. Liebig.—Liebig's Anualen, Vol. 30, page 140.
- 2. Emil Kopp.—Review Scientific, Vol. 27, page 273.
- 3. Process of United States Pharmacopæia, 1880.
- 4. Carey Lea.—American Journal Science, 2 ser. Vol. 32, page 95.
- 5. Grosourdy.—Journal Chemic Medicale, or, Muspratt's Chem., Vol. 1, page 834.
- 6. Feldhaus.—Liebig's Anualen, Vol. 126, page 71.
- 1. Liebig's method is the one given in many of the standard text and reference books, etc., and as far as I can discern, yields a product much above any of the others in purity. It is prepared by passing nitrogen trioxide, (formed by heating starch and nitric acid in a capacious retort,) into a Woulffe bottle containing a cold mixture of 1 part of 85 per cent. alcohol and 2 parts of water, the nitrogen trioxide passing through the alcohol, forms ethyl nitrite, which immediately distills off and is condensed by means of a Liebig's condenser or a Mohr's worm surrounded with a freezing mixture, it is then washed with water to remove alcohol, and dried over calcium chloride.
- 2. Kopp's method. This is recommended by Beilstein, (Beilstein or Gainschen Chemic, Vol. I.) as forming a product which is but

seldom equaled. It is also the method used by Strecker in his researches on the action of caustic potash on Ethyl Nitrite, (Liebig's Anualen, Vol. 77, page 331.) It is prepared by adding copper turnings to a mixture of equal parts of nitric acid and alcohol, contained in a retort connected to a cooling apparatus; the action which starts up is sufficient to cause the ether to pass over without the application of external heat. It may now be either washed and dried, or proceed as Kopp directs, viz.: pass the ether in the state of vapor through a wash bottle containing water, which in turn is connected to a calcium chloride drying tube, and this latter to a cooling apparatus and the pure ether collected.

- 3. United States Pharmacopæia Process: A mixture of alcohol, sulphuric acid and nitric acid, are distilled and the distillate washed with water.
- 4. Method of M. Carey Lea is similar to the preceding one, with the exception that ferrous sulphate is employed in place of the sulphuric acid.
- 5. Grosourdy: Use a mixture of either nitrite or nitrate of potassium, alcohol and sulphuric acid; this he heats gently for 48 to 72 hours, when the ether distills over.
- 6. Feldhaus claims the following method to be the best, after having tried others: A mixture of potassium nitrite, water and alcohol, are poured gradually into a cold mixture of alcohol, water and sulphuric acid contained in a distillatory apparatus; heat enough is produced in the reaction to carry it through and the ether distills off. In methods 3 and 4, some ordinary ether is produced. In 5 a large amount of aldehyde is formed. In all the processes undecomposed alcohol passes over; this is particularly so in 5 and 3.

In 1 and 2, as Watts (Gmelin's Handbook) suspected, and as Smith and Duflos have proved, a small amount of Ethyl Chloride is produced when calcium chloride is used as a drying agent. The following general method was used in purifying the products of the several methods, viz.:

The distillate was shaken with one-third its volume of ice water, vigorously, three successive times. After the third washing, the ether was separated as much as possible by means of a separatory funnel, and the washed ether shaken occasionally in one-half hour with pure

recently ignited potassium carbonate, allowed to settle, decanted into a dry flask and distilled. During this treatment, No. 5 alone browned the potassium carbonate used. The weight of authority, and all the standard chemical works, give the color as a light yellow.

Grosourdy and Courbe, however, contradict this. Grosourdy, (Journal Chemic Medicale, or, Muspratt's Chem., Vol. I, page 855,) refers the color to a hydrocarbon, and says it may be removed by repeated distillation from potassium carbonate. Some Ethyl Nitrite was prepared according to Grosourdy's method, following the process out in every detail. A faintly yellow straw-colored liquid was collected in the receiver; when this was shaken with ice water, however, it at once dimished in volume and formed two layers, an upper layer of a bright yellow color the exact counterpart of Ethyl Nitrite, and a lower colorless layer, a mixture of alcohol and water. upper layer was now subjected to six distillations with potassium carbonate; the distillates kept growing lighter and lighter until the last ones were almost colorless. The boiling point, however, had rapidly risen from 60° to 78° C. It burned, and otherwise denoted its alcoholic nature. If the almost colorless liquid be shaken with ice water, or, if before each redistillation, the distillates be washed with water, a yellowish liquid will always separate out. The decomposition of the ether by distillation with potassium carbonate, is wellknown, and was proven on the ether of all the processes.

Courbe said the color was due to an oil which could be removed by successive distillations from sugar.

For the purpose, white rock candy was powdered and boiled with some Ethyl Nitrite made after Liebig's method, in a flask connected with a reverse condenser, for two hours, when it was distilled off and the process continued with a fresh portion of sugar, and again distilled off. This was kept up for a day, distilling 4 times, but no signs of a fading of color presented themselves.

BOILING POINT.

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Liebig made the boiling point 16.4° C.

Mohr """"17.5°—18°C.

Brown """"16.6°—17.8°C.

Thenard """"21°C, at 7.30.
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Mm. brometric pressure. Strecker (Kurtzes organischen Chem. 2 te auf.,) gives it at 16°C.

The following method was used in determining the boiling point:

The ether decanted from the carbonate of potassium was poured into a small Wurtz fractional distillation flask, with a plain neck, around which was wrapped several thicknesses of paper; the flask was now connected to a condenser and fitted with a caoutchouc stopper, through which a thermometer passed into the liquid. In the final determinations, which represent some 50 or more, a Geissler standard thermometer was used.

The heat applied was very gentle, using the palm of the hand, while the temperature of the room in no case was above + 12° C. and in the greater number of determinations was from + 3° to + 4° C. At first, the boiling point was secured by allowing the liquid to boil thoroughly, then allowing it to cool, and again boiling, during which the bulb of thermometer was alternately raised to ½ inch below the orifice of the exit tube, and again lowered into the liquid; this was to see whether the boiling liquid and its vapor were of the same temperature; in the majority of instances they were the same, while in a few only was there an advance of one-tenth of a degree in the boiling liquid. The readings were made as rapidly as possible and with a magnifying glass. The barometric pressure was also carefully noted.

Ethyl Nitrite, prepared according to 1, 4 and 5, was tried in this manner.

Ethyl Nitrite after No. 1 gave in the preliminary a boiling point of 16.5° C., whilst that from Carey Leas' method gave 17° C. The mean average of all the determinations was 17° C., this compromises about 70 trials.

To conclude the boiling point determinations, some 6 ounces of freshly made Liebig's Ethyl Nitrite was subjected to fractional distillation.

The apparatus consisted of a Wurtz flask, connected by an adapter to a Mohrs' worm, which was surrounded with a freezing mixture. The heat, which was very gently applied to the flask, was sufficient to keep the liquid in a state of constant ebullition, with the thermometer in the liquid, the same began boiling at 13.3° C., when the boiling

continued vigorously up the 16.3° C., it required eight minutes to reach this temperature, and 1½ drams of liquid were obtained.

The thermometer was now raised until the bnlb was $\frac{1}{2}$ inch below the opening of the exit tube; it required 15 minutes to raise from 16.5° C. to 16.6° C. At 16.7° C. it remained for 25 minutes, while it required an hour to reach above 16.8° C. Between the temperature 16.3° to 16.8° C. one ounce was obtained.

The rise in the temperature up to 16.9° required one hour, when it ran up to 17° C. 2 ounces had been obtained. The receiver was now changed, and 1½ ounces were obtained at this temperature; at 17.2° C. all of the liquid had distilled over; the barometric pressure was 758.7 mm. Leas' Ethyl Nitrite.

Treated in the same manner, started at 16.1° C. and ran rapidly up to 17.3° C. and finished at 17.8° C. Barometric pressure 759.2 mm. Grosourdy's Ethyl Nitrite.

At 760 mm. barometric pressure distilled between 19.38° C. and 19.88° C.

SPECIFIC GRAVITY.

This was taken at O° C. by means of a delicate Sprengel Picnometer.

Liebig fo	ound the	Specific	gravity	at	15° C.	.947
Brown	"	"	"	"	15.5° C.	.900
Mohr	"	"	"	"	15.5° C. O 4° C.	.898
Dumas &	k Boulla	у ".	"	"	O'4° C.	.886

The mean of 6 determinations made:

Liebig's	Ethyl	Nitrite at	O° C.	.919
Leas'	"	"	"	.020

This is using the Ethyl Nitrite before fractioning it.

From the results of these experiments, I think it may be fair to conclude:

1st. That Ethyl Nitrite has, as yet, not been made colorless, and that it is light yellow.

2d. That the boiling points 16° to 16.5° C. are probably too low, and that 18.5°—21° C. are possibly too high; also, that the boiling point given by most French and some German works, 17° C., is the nearest correct.

3d. The specific gravity of .947 at 15° C. is undoubtedly too high, as it has not been corroborated. That .886 at 14° C. is too low, and that .900 at 15.5° C. is nearest and about right. It is unfortunate that most of the authorities do not say which method was used to prepare the Ethyl Nitrite; and it is here, without doubt, that most of the difficulity occurs, as the products of the several methods, although seemingly similar, when superficially examined, are very dissimilar when closely scrutinized.

These experiments, which extended over a period of five months, were to have been concluded by determinations of vapor density, coefficiency of expansion and specific gravity at the various temperatures, when they were cut short by the approach of warm weather.

FERROUS CITRATE.

CHAS. P. FENNEL, PH. G. Cincinnati, Ohio.

QUERY No. 28.—A practical formula is wanted for a solution of Ferrous Citrate yieldeng by assay 6.52 per cent. Ferric Oxide.

In accepting the query, the writer presumed that the normal Ferrous Citrate was intended and that the solution should contain 14.833 per cent. of the anhydrous salt. In conformity with the system adopted in the Revision of the Pharmacopæia the following formula, giving the most satisfactory results, might be considered the answer to the query.

LIOUOR FERRO CITRATIS.

(Solution of Ferrous Citrate.)

An aqueous solution of Ferrous Citrate, (Fe₃ 2 C₆H₅O₇); -545.7 containing 14.833 per cent. of the anhydrous salt.

Barium Carbonate, one hundred and sixty parts,	-		-		160
Citric Acid, one hundred and fourteen parts,		-		-	114
Ferrous Sulphate, two hundred and twenty-six parts,	-		-		226
Distilled water, a sufficient quantity,				-	

To make one thousand parts, - - 1000

Put the various salts into a flask capable of holding the volume of the intended product. Pour upon them (500) five hundred parts of Distilled Water, agitate frequently, and let the mixture stand upon a hot water bath until effervescence ceases; filter through paper into a tared flask, and having rinsed the flask with a little boiling distilled water, pass the washings through the filter. Continue to pass boiling distilled water through the filter until the filtrate shall weigh one thousand parts.

Properties: A pale green liquid, odorless, having a slightly feruginous taste, and an acid reaction. Specific Gravity 1.012. When evaporated at a moderate heat to a syrupy consistence, and spread on plates of glass, it forms dark red scales. When completely incinerated, one hundred parts (100) of solution will leave 6.52 parts of residue.

The solution is not precipitated, but only rendered darker by water of ammonia. The solution deprived of its iron, and the filtrate precipitated by test solution of Chloride of Calcium and heated, a white granular precipitate will be produced, which partially redissolved on cooling of the solution. On adding Test Solution of Ferrocyanide of Potassium, a very light blue precipitate is produced, which soon changes to dark blue. Test solution of Ferricyanide of Potassium produces a dark blue precipitate. The addition of Alcohol produces a light green precipitate, rapidly changing to dark red.

Remarks: The double decomposition being explained by the following equation:

3 Ba $CO_3+2H_3C_6H_5O_7+3$ Fe $SO_4=Fe_3$ 2 $C_6H_5O_7+3$ Ba $SO_4+3H_2O_{+3}$ CO_3 .

Carbonic Acid Gas being removed by the aid of heat, (water bath), Barium Sulphate removed by filtration, and freed from all traces of Ferrous Citrate by boiling water. Freshly precipitated Barium Carbonate will react more rapidly, but in its application, there must be a positive absence of the base of the precipitant, otherwise double salts will be formed, and furthermore, oxidation will be more rapid and complete, especially if ammonia be that base.

The literature upon the subject of Ferrous Citrate being exceedingly meagre, the writer was induced to investigate the subject more thoroughly.

Theoretically three processes may be employed to obtain the same result, but which, when put to practical test, were found wanting and accompanied with unlooked for obstacles.

PROCESS I. Thus the action of Citric Acid on Iron filings, with the application of heat, and in the presence of a large and constant quantity of water will produce Ferrous Citrate. The process is slow and tedious, and therefore objectionable, since under the continued and combined influences of the atmosphere, water and heat, oxidation takes place; producing one or more of the numerous Ferroic Citrates; owing to its proneness to absorb Oxygen. In the first stage of the process, a dirty white, almost insoluble salt is formed, consisting of Di Ferrous Citrate, Fe₂ H₂ 2 C₆ H₅ O₇, H₂ O. This soon changes to slate color, bordering on pale green. As soon as this salt assumes a definite green color its solubility increases, owing to the

generated Ferric condition of Iron. The presence of Iron in the Ferroic condition being readily indicated by the test solution of Ferro and Ferricyanide of Potassium. Oxidation still further increases the rapidity of solution, until the color becomes apple green, which remains constant upon continued boiling, provided the quantity of water remains constant. Evaporated to syrupy consistence and spread on plates of glass, a scaly compound results, dark greenish red in color, insoluble in alcohol, slowly soluble in water. The reactions might be symbolized as follows:

3
$$Fe_2+4 H_3C_6H_5O_7=Fe_2 H_2 2 C_6H_5O_7+2 H_2+2 Fe_2+2 H_3C_6H_5O_7$$

 $Fe_2H_2 2 C_6H_5O_7+2 Fe_2+2 H_3C_6H_5O_7=2 Fe_3 2 C_6H_5O_7+4 H_2$.
4 $Fe''_3 2 C_6H_5O_7+3 O_2=Fe_6''' O_3 4 C_6 H_5O_7$.

PROCESS II. The application of Ferrous Hydrate or Ferrous Carbonate in place of Iron Filings of Process I, Ferrous Hydrate and Ferrous Carbonate being still more inclined to the absorption of Oxygen can not be used for the preparation of the salt. The production of Ferric Citrate being in excess of Ferrous salt.

PROCESS III. Decomposition of a normal Citrate of the alkali metals with freshly prepared solution of Ferrous Chloride of definite strength. This method presents many difficulties, in as much as double salts are formed of various degrees of solubility, but all more or less green in color.

Ammonium Citrate generated more heat, and the degree of oxidation was more rapid and complete. The salts formed were scaly, green to brown in color, depending upon the ammonia combined, the vapors of which were continually evolved during evaporation. The proper test solutions indicating Ferroic condition. The constitution of the salts could not be determined, but in all probability they are similar to the Potassium and Sodium salts. The Citrates of Potassium and Sodium yielded granular salts, green in color of various degrees of intensity and with no indication of Ferric salt. The Sodium salt being more definite in crystalline structure, the Potassium salt having a tendency to scale. Operating with definite quantities, the salts formed, indicated the following constitution.

The reactions being represented by the following symbols:

- 2 $K_2C_6H_5O_7+2$ Fe $Cl_2=2$ Fe $KC_6H_5O_7$, H_2O+4 K Cl.
- $2 \text{ Na}_{2}C_{6}H_{5}O_{7}+2 \text{ Fe Cl}_{2}=2 \text{ Fe Na } C_{6}H_{5}O_{7}.H_{2}O+3 \text{ Na Cl.}$
- 2 $K_5C_6H_5O_7+Fe Cl_2=Fe K_4 2 C_6H_5O_7$. 2 $H_2O+2 K Cl$.
- 2 Na₂C₆H₅O₇+Fe Cl₂=Fe Na₄ 2 C₆H₅O₇. 2 H₂O+2 Na Cl.

PROCESS IV. Decomposition of a normal Citrate of the metals of the alkaline earths Ferrous sulphate. Barium and Calcium Citrate will both answer the purpose admirably, but Barium salt is preferable, since in the process of washing the precipitate formed the Barium salt is insoluble, while the Calcium salt is partially so, and therefore contaminates the final product. The Citrates prepared from freshly precipitated carbonates, containing traces of the precipitants, Ammonium, Sodium or Potassium, respectively, will produce dark green solutions with Ferrous sulphate. The intensity of the color depending upon the quantity of impurity present, for the reason explained under 3d process. In conclusion, it is therefore essential that in the preparation of Ferrous Citrate, according to the given formula from Barium Carbonate, that the latter be free from the alkali metals. Secondly—The Ferrous Sulphate should be pale green, insuring the absence of Ferric salt, and be free from traces of efflorescence. Citric Acid usually meets the requirements of the Pharmacopæia, and needs, therefore, no further caution. The Distilled Water should be as free as possible of atmospheric air. The preparation should be conducted as rapidly as is consistent with the process of decomposition, and the final product should be excluded from light, and kept in well closed and filled bottles to insure its preservation.

POWDERED JALAP AND RESIN.

E. H. W. STAHLHUTH, PH G., Cincinnati, O.

QUERY No. 32.—Does Jalap entire and Powdered as at present supplied, contain the required percentage of Resin?

The United States Pharmacopœia requires that Jalap shall contain 12 per cent. of resin, and not more than 10 per cent. of which shall be soluble in ether. The resin being the active constituent, should be abundant. The resin which is soluble in ether, being the griping principle, should be in small proportions.

Fourteen samples of powdered Jalap were obtained in bulk, indirectly from wholesale houses and jobbers, in the cities named. Five kinds of entire Jalaps were examined, which differed very much in general appearance. The entire drug was powdered until all of it passed through a No. 70 sieve.

PROCESS OF VALUATION.

Ten grams (10 gm.) of the drug was exhausted by percolation with 94 per cent. alcohol. The percolator, ½ inch diameter, was fitted with cotton and filter paper; the lower orifice fitted with a rubber tube closed with a spring clip, and the percolator half filled with alcohol. The powder was then gradually poured on the alcohol. As the powder became moistened, it dropped to the bottom of the percolator. This insured perfect moistening and prevented the loss which would occur if moistened in the usual way. The powder was allowed to macerate for twenty-four hours, when percolation was allowed to proceed. The percolate was allowed to flow into a tared 100 c.c. flask until it came up to the 100 c.c. mark. The first 50 c.c. of percolate passed contains all of the soluble portion of the drug; exhaustion was therefore complete.

The resulting tincture was thoroughly mixed, and with a pipette 10 c.c. of it, representing one grain of drug, measured into a small tared flask. The pipette was rinsed with alcohol and rinsings allowed to flow back into the flask containing 90 c.c. of tincture, represent-

ing 9 gms. of drug. The alcohol in this flask was distilled off on a water-bath until the contents were reduced to about oc.c. Eighty (80) c.c. of warm distilled water was then gradually poured into the flask, with constant agitation, and the resin allowed to precipitate. When the supernatant liquid had become perfectly clear, it was decanted and 20 c.c. of warm water again added, the resin thoroughly washed in it allowed to deposit and the supernatant liquid drained The flask was then heated on a water-bath until vapors ceased to be evolved, and dessication completed over sulphuric acid. flask being removed from the dessicator, and from time to time the resin scraped loose with a wire, and triturated to a powder with a glass rod and replaced in the dessicator until dehydrated. with contents was then weighed and the per cent. of total resin calculated. Ten (10) c.c. of re-distilled ether, sp. gr., .720, was then poured into the flask, the resin thoroughly triturated allowed to deposit, and the ether solution decanted. This process was repeated four successive times, using the same quantity of ether each time-The flask with contents was then dried as before, weighed, and the Jalapin calculated by difference. The alcohol in the flask, containing the equivalent of one (1) grain of drug, was distilled off on a waterbath, the flask with residue dried as before; weighed, and the per cent, of alcohol extract calculated.

Owing to the delicate constitutions of the two Jalap resins, an acid was not used to accellerate the precipitation. Water alone being used, the precipitation was necessarily tedious, requiring at an average about four weeks' time. The resin precipitated in a honey-like One hundred (100) c.c. of water will probably not remove all of the constituents of the alcoholic solution of nine (9) grams of Jalap soluble therein; the result given would therefore appear to be too high, but as the resins of Jalap are not absolutely insoluble in water, the one error is probably nearly corrected by the other. convolvulin being absolutely insoluble in ether, it is not affected by the large quantity of ether used in washing it from the Jalapin. process of evaporation, precipitation, dessication and weighing having been conducted within the same flask, there was consequently no error caused by spurting, sticking to vessels, or accumulation of dust. As all samples were treated in the same manner, with the



same quantities of water and ether, the comparative valuation is probably correct. The samples having been procured indirectly from the source of supply, they represent the state of the market nearer than if obtained through the retail trade.

DESCRIPTION OF ENTIRE JALAP.

No. 15.—Oblong tubers, hard and heavy, weight, ½ to 1½ 02.; larger tubers hollow in center; sp. gr. 1.28; dark brown externally, longitudinally wrinkled, light transverse warts. Internally very dark, very resinous fracture, almost conchoidal.

No. 16.—Irregular, shriveled and contorted; various shapes and sizes; weight 20 grs. to ½ oz.; externally, light brown; longitudinally wrinkled, but no transverse warts; internally, light gray; tough, horny fracture. Some pieces had a high sp. gr., while others floated on water; sp. gr. of the whole, 1.22.

No. 17.—Oblong tubers, compact and plump; weight, 1 to 1½ 0z; sp. gr., 1.16; externally, light to dark brown; scarcely wrinkled longitudinally; covered with transverse warts; internally, nearly white; very starchy fracture.

No. 18.—Oblong pyriform, compact and hard; weight, ½ to 1 oz.; sp. gr., 1.34; externally dark-brown; longitudinally wrinkled; transverse warts; internally, varying from light to dark-gray; fracture resinous.

No. 19.—Irregular, much broken, shrunken and somewhat porous pieces; weight, ½ to 1 oz.; larger tubers sliced longitudinally; very dark-brown externally, with lighter transverse warts; internally, nearly black; very brittle; fracture resinous and conchoidal; sp. gr., 1.17.

All of these five samples produced the characteristic irritating sensation in the nose and throat during pulverization.

RESULTS.

Sample Number.	From City.	Per cent. Total Resin.	Per cent. of Resin dissolved by Ether.	Per cent. Alcohol Ex- tract.	Per cent. of Resin in Extract.
1	Columbus	5.85	11.57	16.5	35.45
2	Kansas City	6. 16	10.27	. 16 5	37.32
3	Cincinnati	6.62	12.91	17.8	37.18
4	Cleveland	7.00	15.39	14.2	49.29
5	New York	7.60	9.65	17.9	42.45
6	Indianapolis	8.45	11.69	16.8	50.29
7	Cleveland	8.53	17.83	17.7	48.18
8	Cincinnati	8. 55	10.52	15.6	. 54.80
9	New York	9.23	6.01	22.6	40.83
10	Cleveland	9.29	13.51	165	56.29
ıı	Cincinnati	12.04	15.67	18.7	64.36
I2	Cincinnati	13.51	11.59	19.7	68.57
13	Columbus	14.03	7.02	23.9	58.70
14	Cincinnati	14.32	8.68	22 4	63.92
r5	Entire	7.66	6.21	15.5	49.41
16	Entire	8.03	9.12	13.9	57.75
17	Entire	9.21	8.32	11.2	82.22
18	Entire	12.07	8.21	16.3	74.04
19	Entire	15.59	5.63	21.9	71.18
	Average	9.67	10.51	17.66	45.84
	Standard	12.00	10.00	20,00	60.00



CONCLUSION.

The facts brought out by this work show that Jalap entire and powdered, as at present supplied, is variable in quality; a very good and a very poor drug is on the market, the extremes being 5.85 and 15.59 percentage of resin constituent. They also show that the quality of this resin is variable, containing from 5.63 to 17.83 per cent. of Jalapin. Jalap should, therefore, be assayed as well as any drug, the active constituent of which, varies. The process of assay employed by the writer, although believed to be as accurate as any that may be devised, is too tedious for practical purposes. A better and more speedy method is in demand. The percentage of alcohol extract, although larger in good than poor Jalap, does not give an idea of the percentage of resin, and this is not a reliable means of ascertaining the quality of the drug.

The extract itself is variable in quality, and should be assayed for its resin and made to contain 60 per cent. of resin, representing five times its weight of drug of standard quality. It is the writers' opinion that the quality of the extract varies with the stage of growth; when the tuber is young it contains considerable starch, which being insoluble in alcohol, the per cent. of extract is small, but this extract is very rich in resin. At a more advanced stage of growth, when the starch is partially or entirely converted into sugar, which is soluble in alcohol, the tuber yields a larger per cent, of extract, but this is not so rich in resin. When the tuber approaches maturity, the percentage of extract is increased as well as its resin constituent. It is probable that at a certain stage of growth the extract is nearly pure resin. Jalap owes its virtues to its resin, and as the resin which is soluble in ether is an undesirable constituent, and as Jalap, as well as the resin, is so variable in quality, why is it not advisable to employ only the convolvulin, or the resin which has been treated with ether? This resin is not hygroscopic and the dose is constant, three (3) grains of it representing twenty-five (25) grains of good Jalap.

Nature probably never intended that Jalap should be administered without first changing its character, any more than that man should eat a potato before it is cooked. Nature gives the material, and it is man's, (in this case the pharmacist's,) duty to prepare that material,



to remove undesirable constituents and to change the product so as to moderate any unpleasant effect. This is a point which may deserve a little more investigation by the fraternity.

Prof. Lloyd-Mr. President. This paper is of unusual interest. I know that the writer of the paper has been to much trouble and has been very careful in his work, and it calls to our attention the fact that so common a drug as jalap is certainly open to inspection, or should be, as well as cinchona or other drugs of that kind. I was astonished when I went over these figures and reflected upon the differences in jalap. Probably those of us who are acquainted with the crude material are aware of the fact that jalap at the present time is not as large and firm and heavy as it was in former years. that the bulbs are very much smaller than they were, and that with the decrease in the price of jalap there seems to have also been a decrease in the value of the jalap we get, and in the uniformity of it. It is not the same as it was formerly, and those who powder jalap have trouble in getting good jalap to powder. I think that this paper shows us that not only is poor powdered jalap on the market, but also poor crude jalap, and that the low grade of the powdered jalap cannot be altogether due to adulterations. In fact, on the contrary, it is shown, I think, by the averages, that there is nearly as much difference in the crude as there is in the powdered, and possibly it may be that all of this powdered jalap is made of different qualities of real jalap. But I would also call your attention, gentlemen, to the fact that some years ago a spurious jalap appeared on the market and excited considerable comment in this country. I do not know that there is much of it here now. Perhaps Dr. Lyons can enlighten us on that subject.

Dr. Lyons—I am not able to give any information on that point, as to whether that spurious jalap is to be had, as I have not met with it; but it is very certain that much of the crude jalap is far below the Pharmacopæial standard. I am not sure but that the standard is a little high. Pharmacists are obliged to use many preparations of drugs, manufactured they know not how, they know not with what skill; but here is an instance where they find differences or defects in the crude drug itself, and my own experience tallies very well with that of the writer of this paper, that even crude tubers as we meet

them in the market, whether they have been tampered with or otherwise, are frequently as low in resin as from ten to eight per cent.

Prof. Coblentz—A few years ago I had occasion to examine a number of samples of both powdered and crude jalap, and I found as much variation in the crude as in the powdered. Some of the samples of crude jalap were found to have been soaked—that is, they were sticky on the outside, and had all indications of having been soaked in alcohol previous to being thrown on the market, and that may account in some cases for the low amount of resin found. Other samples, that were probably gathered too early, appeared as though worm-eaten; they were spongy in texture. I think you will find that there will be just as much variation in the crude jalap as in the powdered, and in all probability the drug-dealers have been fair and honest in this particular. They have powdered the drug as they bought it on the market, thinking all the time that as it was a true jalap it could be thrown on the market. I think that the drug-dealers are not to blame in the least for this variation.

Prof. Lloyd—Mr. President, I would call the attention of our Association to the fact that probably a considerable amount of impure jalap is thrown on the market now that we did not get in the olden time because the small size of the tubers indicate that it is gathered earlier and that it has not reached its purity. I would suggest that the Committee on Papers and Queries introduce a query as to the variation that exists between large bulbs and small ones, between old and young jalap.

BLACK OXIDE OF MANGANESE.

BY S. W. McKEOWN. Youngstown O.

QUERY No. 33.—Is not much of the Black Oxide of Manganese offered for sale largely adulterated? Test the present market supply for value in pure Binoxide.

The commercial Black Oxide of Manganese is a mixture of the binoxide of the metal and one or two lower oxides, together with such impurities as silica, alumina, oxide of iron, baryta lime, magnesia, etc. The purest binoxide of manganese found in nature is a mineral called pyrolusite. There are probably at least three oxides found in the commercial article, namely; binoxide (Mn O₂) sesqui oxide (Mn₂ O₃) and protoxide (Mn O).

The first is of nearly a black color, the second is brown, and the third has a greenish hue.

The Pharmacopæia requires that black oxide of manganese shall contain at least 66 per cent. pure binoxide, and that 5 grams shall be sufficient, when boiled with dilute hydrochloric acid, to completely oxidize 21 grams ferrous sulphate, the latter to be added to the cold mixture before boiling. The fact however that 5 grams of the sample does oxidize 21 grams ferrous sulphate, does not prove it to contain 66 per cent. of pure binoxide, for the reason that the sesquioxide also gives up one third of its oxygen, and therefore counts for a certain amount of binoxide. For instance, if the sample under examination contains 60 per cent. only of pure binoxide, and 11 per cent. of sesquioxide it will furnish the required amount of oxygen and be equivalent to 66 per cent. of binoxide.

Four samples of black oxide of manganese were subjected to the above test. The amounts of Mn O₂ indicated were 70.00, 69.80, 67.40, and 62.25 per cent. One only fell below the Pharmacopœia standard. A quantitative analysis of each specimen gave the following results:

	ī	2	3	4
Binoxide Manganese	62 25	70.00	69.80	67.40
Monoxide Manganese	6.95	13.41	3.61	6.25
Silicious Water	3.24	5.72	8.76	2.35
Oxide Iron, Alumina,	3.99	3.24	4.58	3.90
Baryta	13.52	1.14	3 66	3.40
Lime	.70	1.50	Traces.	3.86
Magnesia	· 34	-45	Traces.	1.80
Water and Loss	9.01	4-54	9 59	11.04
Totals	100	100	100	100
Metallic Manganese	44-74	54.64	46.92	47-44

It is my opinion that little if any of the present market supply is adultered, although the amount of natural impurities in many instances may be such as to greatly lessen its value.

AMYL NITRITE.

W. SIMONSON, Cincinnati, Ohio.

QUERY No. 34.— Samples of Nitrite of Amyl have been found nearly free from the nitrous radical; what is the percentage of absolute Amyl Nitrite, (C₅H₁₁ NO₂,) in the best specimens of commercial Amyl Nitrite and how near a pure nitrite should a medicinal article approach?

The Pharmacopæia gives a good description of the properties of this substance, tests for the identity of its parts, and fixes the limit of acidity, but does not name the process by which it should be prepared nor adopt a standard of strength. The objects in answering this query are to show the average percentages of total nitrites, ćalculated as Amyl Nitrite, in the commercial article, thus determining the limit of strength practicable to adopt, to compare the results obtained by the assaying with those gotten by fractional distillation, and to verify the statement that this substance should be the product of the reaction between nitrous acid gas and well purified amyl alcohol.

ESTIMATION OF AMYL NITRITE.

Whenever this term is used, the statement refers to total nitrites calculated as Amyl Nitrite, C_5H_{11} NO₂ = 117. In such a complex mixture as the commercial article, one nitrite, or two or more nitrites, may be, and probably are, present. The method of assay is that of Allen, described in Commercial Organic Analysis, p. 1:0-151, and detailed fully in the Proceedings of this Association for 1886.

Forty-one packages, from seven makers, were examined by this method for percentage of Amyl Nitrite, and subjected to the officinal tests. The results of the work are shown in the following table in which the first three are arranged in the order of the supposed quantity used, nothing being known concerning the remainder, except that the seventh, being the production of a foreign maker of the highest reputation, is probably well distributed. If the two samples fairly represented other markets, our supply, from two domestic makers, is unequaled in strength and quality. According to the estimate of the dealers from whom material was obtained, No. 1

supplies from sixty to ninety per cent. of the quantity consumed, yet it is the poorest of all those having a very large sale.

Maker.	Number.	Per cent. Total Nitrites as C ₅ H ₁₁ NO ₂	Sp. Gr. at 15° C. (Water at 15° C=1,000.	Boiling Point.	Total Acidity as HNO ₂	Water (in 25 Gm.)	Color.
Α.	1	13.31					Very pale
- 1	2	13.44	.8550			Trace	Yellow.
- 1	3	13.05					
1	4	20.76	.8541	. .		0. 0	
	5	22.2	.8588			I to 2 minims	
1		19.98	.8500	ገ 70° C.		Few min. drops]
	7	13.71	.8519	rising		Few min. drops.	
	- 1	23.40	.8548	} irregu-		0.0	
	. 9	12.00	.8517	larly to		0	
	10	23 29	.8540) 128° C.		Few min. drops	[
	II	18.78	.8531			Few min. drops.	
	I 2	14.22	.8552			⅓ minim	
	13	17.31	.8531			O	
_	14	14.21	.8454		.57 %		
В	I	84.0	.8778			Few min. drops.	Pale yel.
	2	85.3	.8746			About ¼ minim	
	3	85.0	.8767		l .	Very few min.	
	3	5,0	.0,0,	1		∫ _ drops	
	4	85.o	.8746			Very few min.]
			1			arops[drops	
	5	84.0	.8750) 8 <u>7</u> ° C.		Very few min.	ļ.
		86.9	.8760	Very		1	
	7 8	84.5	.8780	> soon		Few min. drops	
		86.5	.8760	constant		Few min. drops.	
	9	85.77	.8760	1 at 96° C.	•••••	Few min. drops.	
	10	79.43	.8781			Few min. drops.	
	11	96.00	.8814			0.0	
	12	83.11	.8814			Few min. drops.	
_	13	85.6	.8765		.23%		
С	I	75.36	.8822			Few min. drops.	
	2	73.85	.8830	86°, C.		About 1/2 minim	1
	3	75.6	.8822	gradual-		About I minim	
	4	83.4	.8800	ly rising		Few min. drops	
		76.5	.8822	∫ to 96° C.		Few min. drops	
	5	82.70	.8800	then		Few min. drops.	
			00) constant			į.
n	7	74.21	.8831			About 1/2 minim	• • • • • • • •
D.	I	39.0	.8613			Few min. drops	
10	2	46.2	.8557			O	
Ε.	1	00.0	.8882			Few min. drops.	
T.	2	00.0	1.003			About 1/2 minim	
F	I	65.31	.8844			About 2 minims.	
G.	I	67.73	.8830			Few min. drops.	
	2	66.73	.8830			0.0	•

"SP. GR. .872 TO 874."

The specific gravities given in the table were taken at 15°C, the standard volume being water measured at the same temperature. The specific gravity of pure Amyl Nitrite is given variously, as between .877 and .902, the temperature of the standard volume and that at weighing, being unknown. Of commercial specimens, No. 11 B, nearly pure, had sp. gr. .8814, but the influence of the small diluent is unknown; those of C, next in purity, varied between .8800 and .8831, the higher sp. gr. going with the lower strength; those of C4 lowest in purity between .856 and .845, lower sp. gr. usually followed by lower strength. No. 1-E, sp. gr. .8882 contained little more than a trace of nitrite. A specimen prepared by this operator for this paper, brought by careful fractional distillation to a constant boiling point and believed to be nearly free from other nitrites and amyl ethers, had sp. gr. O.88135.

If sp. gr. of amyl alcohol, forming the largest part of the diluent in most specimens, be taken as .818 and that of amyl nitrite as .8814, then sp. gr. .874 would indicate a mixture containing 88 per cent. or less of pure amyl nitrite, and sp. gr. 872 to one containing about 85 per cent. or less But sp. gr. of nearly all commercial samples can be no indication of strength, since other amyl ethers are present, especially if made by the nitric acid conversion.

"IT BOILS AT ABOUT 96°C."

The statements of the books on the boiling point are more conflicting than those on the specific gravity, The boiling points of the first three brands given in the table were obtained by using 4—5 C.c. contained in a narrow test tube, about 12 c. m. long, fitted with a cork carrying a short delivery tube directed upward, and a correct thermometer, the bulb being just above the surface of the boiling liquid, which was heated by an oil-bath. The boiling point was taken at that temperature at which air had been driven out of the tube, and ether vapor had just begun to escape by the delivery tube.

In taking the boiling point of the commercial nitrite, always of very complex composition, more useful results are obtained by using about 15 C.c. of the sample, the containing tube being of such capacity as to leave the smallest allowable space between liquid and cork. The

presence of fractions boiling much below 96°C., unless present in a small and unobjectionable quantity, may then be shown, as these will not have been boiled off before the time of reading the temperature.

The specimen of Amyl Nitrite prepared for this paper was vaporized completely at 96°C., the temperature rising slightly and suddenly at the close as the vapor from the last few drops became overheated by the bath.

ACIDITY.

"On shaking 10 C.c. of Nitrite of Amyl with 2 C.c. of a mixture of one part of water of ammonia and nine parts of water, the liquid should not redden blue litmus paper, (limit of free acid,)" corresponding to .63 per cent. H NO₂. In performing this test the dilute ammonia is best measured into a tube holding little more than the entire mixture, to exclude air, the nitrite then poured in and the tube closed by a cork bearing a small piece of litmus paper. If the paper is blue after shaking, the excess of alkali can be estimated, and, by difference, the acidity calculated. The results by this method are very constant, if not accurate. All samples of A were much above the limit, due to exposure in making other tests, those of B slightly above one-half the limit, and those of C about the same as A. A freshly opened package of A gave .57 per cent. H NO₂; B .23 per cent., and C not estimated for lack of material.

ABSENCE OF WATER.

It should remain transparent, or nearly so, when exposed to the temperature of melting ice, (absence of water.) The results shown in the table were obtained by exposing the vials to a bath of ice-water for eight hours and then noting the quantity of water separated. Very few specimens stood this test absolutely, but only in a few cases did it exceed about one-half minim. The test does not prove the absence of water unless the sample is rich in Amyl Nitrite, and contains but a small proportion of amyl alcohol. Thus, No. 8 A yielding no trace of water, when distilled gave over two per cent. with fractions under 90°C. and fully three per cent. below 100°C. The presence of water is properly considered to increase decomposition, and, as it appears impossible to separate it, in the presence of amyl alcohol, by cooling to O°C., a well made preparation should contain

but little unaltered alcohol, and a close limit might be placed by increasing the required specific gravity so as to be "from 0.878 to 0.881."

FRACTIONAL DISTILLATION.

Results obtained by the assay process give no indication of the quality of the substance examined, but refer simply to total nitrites. Further knowledge of the composition of the liquid may be obtained by fractional distillation. The apparatus used for this work consisted of a wide-necked distilling flask, holding about 800 C.c., on which was mounted a five-bulb Henninger tube the delivery of which was connected securely with a small bent tube passing through a bath of ice-water and vertically into the tared receiving flasks, also cooled by The fractionating tube was not supplied with cups of gauze, as these could not be obtained in time for the first distillation, and it was necessary to treat all by an uniform process. This defect was compensated as far as possible by very slow distillation, the ratio between distillate and flow-back being about one to twenty, or more, and seldom rising to one to ten. Separations effected under these conditions are very incomplete, and the chief value of the work has been to establish a series of boiling points and note the proportion of distillate obtained between successive temperatures, together with the assay values and specific gravities of the fractions.

This ether is described by some experimenters as having a constant boiling point, and by others as beginning to boil at about 90°C, the temperature passing to 100°C, or beyond. According to Allen, (Com. Org. Analysis, p. 160,) "a fairly pure article will yield fully 80 per cent. of its original measure between 90°C and 100°C, and should leave no very considerable residue at the latter temperature. * * * Incomplete distillation at 100°C is due chiefly to the presence of amyl alcohol, heavy traces of which may apparently be formed by partial decomposition of the nitrite during distillation. Hence, commercial Amyl Nitrite of good quality may leave a residue of 5 to 10 per cent. at 100°C."

425 Gm. of A, 445 Gm. of B and 440 Gm. of C, were fractionated under the described conditions. The data so obtained are set forth in the following tables. In distilling B, the process had to be hastened somewhat and the separation is less perfect than it would have been could more time have been allowed.

TABLE A.

Color of Vapor	Deep orange, soon very pale orange.	Very pale orange.	At 75° C. very pale orange. At 90° C. colorless.	Colorless,	Colorless.	Colorless.	Colorless.	
PHYSIOLOGICAL EFFECT.	Very slight and obtained by repeated inhalations.	Much greater than original. Very much less than that of pure Ether.	Same as preceding.	None.	None, inducing cough.	None, strongly inducing cough.	None, scarcely inducing cough.	
Color.	Full yellow.	Full yellow.	Full straw	Very light yellow.	Very faintly yellowish.	Colorless.	Light orange yellow.	Opaque near- ly black. Thick vissid liquid.
Specific Grav. (Water at 15° C=1,000.)	168.	.8746	.8580	.858	.8252	.8187	.8326	
Per Cent. Total Mitrites (as C ₆ H ₁₁ MO ₂)	97.75	91.12	21 42	0.0	0.0	0.0	0.0	
Per Cent. Weight.	3.14	14.00 (5.0 C.c. Water.)	6.00 (5 C.c. Water.)	About 5. (3 C.c. Water.)	30.3	30 47	5.10	2.50
Tempera- ture.	35° C. to 60° C.	60° C. to 75° C.	75° C. to 90° C.	90° C. to 100° C.	100° C. to 127° C.	128° C. to 132° C.	132° C. to 140° C.	Above 140° C.
Fraction Number.	1	8	3	4	5	9	7	∞
Макв А.	Very pale yellow.	Sp. gr. 0.8550, as:ay == 23.4 per ct.	C, H ₁₁ NO	Distillate between 90° C. and 100° C. =	About 5 per cent. Loss=4.2 per cl.			·

It will be noted that all nitrites distilled or were carried over below 90°C, the following fraction containing but a trace.

The fraction collected between 90°C and 100°C, amounted to less than 5 per cent. The exact amount is unknown because the fractionating tube broke at 93°C, involving a slight loss by escape of vapor, and a greater loss by transferring. But the fraction had not the characteristic effect on the head, and its vapor was quite colorless.

TABLE B.

Color of Vapor.	Deep orange, soon very pale orange.	Very pale orange.	Very pale orange.	Very pale orange.	Very pale orange.	Very pale orange.	Scarcely colored.	Coloriess.	
Physiological Eppect.	Obtained slowly and rar less than that of pure Ether.	Obtained slowly, about half that of pure Ether.	Nearly that of pure Amyl Nitrite.	Very nearly that of pure Amyl Nitrite.	Scarcely differing from preceding.	Much less, about two-thirds that of pure Ether.	Very feeble, obtained slowly, strongly inducing cough.	None, very slightly inducing cough.	
Color.	Full straw, deeper than original.	Full straw yellow.	Pale yellow.	Pale yellow.	Pale yellow.	Pale yellow.	Very pale straw yellow.	Full yellowish brown.	Deep red- black. Thin liquid.
Specific Grav. (Water at 15° C.=1,000.)	.8877	8830	.8805	.8787	.877	.8750		1628.	
Per Cent. Total Mitrites (as C ₅ H ₁₁ MO ₂)	103 45	99.50	96.66	oò 56	59.06	78.71	15.00	0.0	
Per Cent. Weight.	5.75	7.15	13 06	32.0	25 6	2.82	3.67	5.3	4.2
Tempera-	70° C. to 93° C.	90° C. to 92° C.	92° C. to 94° C.	94° C. to 95° C.	95 5°C. to 97.5° C.	97.5°C. to	100° C. to 129° C.	129° C. to 132° C.	Above 132° C. Residue.
Fraction Number.	-	8	m	4	w	9	7	••	6
Макв В.	Pale yellow, slightly acid.	Sp. gr8780, assay=84.5 per ct.	C, H ₁₁ NO,	Distillate between 90° C. and 100° C. =	80.1 per cent. Loss=1.1 per ct.				

This specimen gave less than 6 per cent. distillate below 90°C, fully 80 per cent. between 90° and 100°C, leaving at this temperature less than 15 per cent. of residue, and this, consisting in small part, of Amyl Nitrite, might have been reduced by slower distillation. The principal part of this residue appears to have been amyl alcohol.

LABLE C.

Color of Vapor.	Full orange, soon very pale orange.	Very pale orange.	Very pale orange.	Very pale orange.	Very pale orange.	Very pale at 110° C. colorless.	Colorless.	Coloriess.	
PHYSIOLOGICAL EFFECT.	About one-fourth that of Amyl Nitrite and differing in kind.	Half, also differing in kind.	Same as preceding but more lasting.	Little weaker than Amyl Nitrite and but slightly differing.	About same as preceding.	About two-thirds that of pure Ether.	None.	None.	. None.
Color.	Full yellow.	Full yellow.	Yellow.	Pale yellow.	Pale yellow.	Very pale yellow.	Nearly colorless.	Brownish yellow.	Opaque. Reddish black.
Specific Grav. (Water at 15° C.=1,000.)	.8822	.8815	0188.	.8805	.8805	8795	.8750	.8674	
Per Cent. Total Mitrites (as C ₅ H ₁₁ MO ₂)	94.66	93.12	91.35	40 16	98.06	\$8.36	0.0	0.0	0,0
Per Cent. Weight.	8.36	15.22	10.8	32.24	16.83	2.94	4.74	4.80	3.17
Tempera- ture.	60° C. to 90° C.	90° C. to 92° C.	92° C. to 94° C.	94° C. to 97° C.	97° C. to 100° C.	100° C. to	110° C. to 124° C.	127° C. to 132° C.	Above 132° C. Residue.
Fraction Number.	-	74	ω	4	S	9	7	8	6
МАКЕ С.	Full yellow, much deeper than pure Amyl Nitrite.	Sp. gr8800.	C, H, NO.	Distillate between	75.1 per cent.	Loss = 0.9 per ct.			

This specimen is known to have been prepared by the nitric acid conversion.

The high sp. gr. of all these fractions proves the absence of much amyl alcohol.

Fraction 4, 94°C to 97°C, having greatest physiological effect, assayed but 91.1 per cent., the diluent in great part valeric aldehyde. The presence of this substance shows the greatest defect of the nitric acid process, and the great difficulty or impossibility of making a pure article by this means.

The	results	may	be	compared	as	follows:
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MAKE.	Distillate below 90° C.	90° C. to 100° C.	Above 100° C.	Total.	Loss.	
A	23.2	About 5.0	67.6	95.8	4.2	
В	5.75	8o. 1	13 05	98.9	1.1	
c	8.35	71.1	15.65	99.1	9	

These results show that of two domestic brands of Amyl Nitrite of fairly good quality, one is made from very well purified amyl alcohol, or is carefully fractioned from the crude nitrite, and the second from a moderately well purified alcohol, or is but imperfectly fractioned from the first-found nitrite. But one brand, and that is certainly the one most largely sold, is evidently made from a very impure amyl alcohol, and is also put on the market unrectified. The mixture is scarcely fit for medicinal use, and this may account in part for the neglect into which the article has fallen.

Respecting the preparation of this body, authors usually quoted are at variance and are contradictory, but the weight of authority is in favor of some form of the nitrous acid method, and, more recently, Williams and Smith have shown the necessary details for obtaining the largest yield and the purest product. (Pharm, Jour. and Trans., Dec.

12, 1885; Am. Jour. Parm., Jan., 1886.) They recommend acting on purified amyl alcohol with the gas given off by reaction between arsenious oxide and nitric acid of sp. gr. 1.350 to 1.360, the alcohol being kept cool throughout the process. By this method was prepared a quantity of crude Amyl Nitrite. The retort is partly filled with arsenious oxide in coarse powder which is covered with diluted nitric acid containing 54 per cent. of absolute nitric acid. The mixture is gently heated and the evolved gas, not warmer than 30°C as it leaves the retort, passes into a large empty bottle, becoming further cooled and depositing a small quantity of liquid carried over from the retort. The tall, narrow cylinder is not more than three-fourths filled with amyl alcohol, and the heat is so regulated as to keep a slow stream of bubbles passing through it.

Much difficulty was found in getting an alcohol suited for preparing Most of that met with appeared like tailings of the the nitrite. rectification of fusel oil. The best commercial specimen obtainable had sp. gr. .8181, and boiling point, (taken on too small a quantity,) 125°C to 132°C. Appearing to be well rectified it was used without further purification, but afterward proved to have been very impure. 183/2 ozs. of this alcohol, nitrified by the process described, yielded 24 ozs. or o6 per cent, of the theoretical yield. After regulating the heat, the process went on with only occasional inspection and this to stop the work on appearance of the olive-green color, which indicates complete conversion. This product assayed 103.7 per cent. Amyl Nitrite, and after washing with two volumes of 20 per cent. solution of sodium carbonate, gave, in two assays, 102.2 and 101.9 per cent. Rectified in an ordinary retort fitted with a good thermometer and well connected with a Liebig condenser, 11 per cent. came over under 90°C, 75 per cent. between 90°C and 97°C, leaving a residue of 1.2 per cent. with a loss of 2.8 per cent.

Fraction under 90°C had sp. gr. .8869, and assayed 107.5 per cent. Amyl Nitrite; washed with sodium carbonate solution and cooled to 0°C to separate water, it had sp. gr. .8843 and assayed 107.6 per cent. Amyl Nitrite.

The small residue remaining at 97°C, 1.2 per cent., assayed 1.91 per cent. Amyl Nitrite, but sp. gr. could not be taken with any useful accuracy. The 90°C-97°C fraction, washed with sodium carbonate.

solution and cooled to O°C for 12 hours, separated from about 500 Gm. of ether about 2 C.c. of water. It then had a pale yellow color, was free from nitrous odor, had sp. gr, .8818, and assayed 101.12 per cent. Amyl Nitrite. Both assay value and sp. gr. showing the presence of nitrites of lower molecular weight, perhaps of lower alcohols. A quantity of the ether was next examined by fractional distillation, using 414 Gm. Results appear in the following table:

TABLE No. 1.

Color of Vapor.	Deep orange, soon pale orange.	Very pale orange.	Very pale orange.	Very pale orange.	Very pale orange.	Very pale orange.	
PHYSIOLOGICAL EFFECT.		Obtained slowly, and about one- third that of pure Ether.	About half that of pure Ether.	Obtained quickly, but much less than that of Amyl Nitrite.	Not differing from that of pure Ether.	Obtained more slowly than from 5, but differing in kind.	Obtained still more slowly, not differing in kind.
Color.		Pale yellow.	.8830 Pale yellow.	Pale yellow.	Pale yellow.	Pale yellow.	Slight brown- ish, about twice original.
Specific Grav. (Water at 15° C.=1,000.)		.8830	.8830	.8828	.88135		
Per.Cent. Total Mitrites (as $C_6 H_{11} MO_2$)	:	102.66	100.31	100.14	100.0	93.8	8 65
 Per Cent. Weight.	11.11	8.37	8.77	20.92	45.00	1.36	2.46
Tempera- ture.	80° C. to 90° C.	90° C. to 92° C.	92° C. to 94° C.	94° C. to 95.5° C.	95.5°C. to	96° C. to 97° C.	Above 97° C.
Fraction Mumber.	1	0	3	4	۲۰	9	7
PRODUCT OF NITROUS ACID.	Conversion.	Process of Williams & Smith.	Pale yellow, neutral.	Sp. gr8818. assay=101.12 per ct.	C, H ₁₁ NO,	Distillate between 90° C. and 100° C. =	84.42 per cent. Loss=2 per cent.

Fraction one was lost at once by breakage, hence its properties could not be determined, but in the following ones sp. gr. remained nearly constant until No. 5 gave .88135. The assay values fell gradually until 5 gave as near 100 per cent. as the method will indicate.

The results of this experiment show that the product of the manufacturing process consisted of but little other than nitrites, the impurity being in very small proportion. As they also showed the probable presence of nitrites of lower alcohols, the remainder of supply of amyl alcohol was examined by distillation, and as was expected, the liquid proved to be very complex. Eight per cent. passed betweed 90°C and 105°, sp. gr. .857; 32.5 between 113°C and 127°C, sp. gr. .8134; and 52 between 127°C and 129°C, sp. gr. .8154, leaving a residue of 7.3, sp. gr. .8170, which probably would have distilled under 133°C.

It would thus appear that pure amyl alcohol of constant boiling point will yield a nearly pure Amyl Nitrite, also of constant boiling point, and that that temperature is 96°C, the sp. gr. being about .8813—.8814.

Owing to lack of material to prove this supposition, the subject is left for the present and may form a note for the next meeting.

In view of the facts shown in the foregoing paragraphs, it would seem that the Pharmacopœia recognizes an Amyl Nitrite far from pure, and much less pure than one domestic brand, and still less pure than the specimen prepared for the purposes of this paper. freely exposed to the air, it leaves a large residue of amyl Alcohol," does not apply to either, the former leaving but a small residue at end of five hours, and the latter scarcely more than an oily film when 10° C.c. of each was exposed in watch-glasses. gravity is much too low, allowing a large admixture of amyl alcohol, and vapor is never more than transiently orange-colored from a good article, very soon becoming very pale orange or nearly colorless, unless seen in depth of about one metre. The limit of acidity is far above the commercial specimen just referred to, and still farther above what is easily possible. Considering the great ease with which the substance can be prepared by the method detailed, excluding amyl alcohol entirely, including other ethers only in traces, and having for greatest impurity certain nitrogen oxides almost entirely removed by process of purification—from these it would appear advisable to include a quantitative test that should require a nearly absolute ether, to lower the limit of acidity very much, and raise sp. gr. to be 0.878 to 0.881." These tests, with a closer definition of method of taking the boiling point, would describe and require a much better article, and these requirements could easily be met by manufacturers of the commercial ether.

ACT OF INCORPORATION.

The undersigned, residents of the State of Ohio, Sylvester S. West, Lewis C. Hopp, George H. Fenner, Nathan Rosenwasser, A. Mayell and William F. Spieth, do hereby certify that we desire to form a corporation and become incorporated under and pursuant to the laws of the State of Ohio, and especially as provided and prescribed in Sections 3235 and 3236, and the following Sections of Title 2, Chapter I, of the Revised Statutes of Ohio, which took effect January I, 1880.

ARTICLE I. The name by which we desire to be known is THE OHIO STATE PHARMACEUTICAL ASSOCIATION.

- ART. 2. Said Association to meet annually, at such place as may be designated at a previous meeting, and on the third Wednesday in May of each year, at which time the business of the Association will be transacted. (See Article 4 of the Constitution.)
- ART. 3. The object of the Association shall be to unite the reputable pharmacists and druggists of the State, to improve the science and art of pharmacy, to elevate its standard, and to eventually restrict the practice of pharmacy to properly qualified pharmacists and druggists.

SYLVESTER S. WEST,	[SEAL.]
LEWIS C. HOPP,	[SEAL.]
GEORGE H. FENNER,	[SKAL.]
NATHAN ROSENWASSER,	[SEAL.]
ALFRED MAYELL,	[SEAL.]
WILLIAM F. SPIETH.	[SEAL.]

STATE OF OHIO, CUYAHOGA COUNTY, ss.

Before me, a Notary Public, duly commissioned and sworn, within and for the County of Cuyahoga, and State of Ohio, personally appeared the above named Sylvester S. West, Lewis C. Hopp, George H. Fenner, Nathan Rosenwasser, A. Mayell and William F. Spieth, corporators of The Ohio State Pharmaceutical Association, and acknowledged that they did sign and seal the above certificate, and that the same is their free act and deed.

In Witness Whereof, I have hereunto set my hand and affixed my Notarial Seal, at Cleveland, Ohio, this 26th day of April, A.D., 1880.

[L. S.]

L. A. WILLSON, Notary Public.

STATE OF OHIO, CUYAHOGA COUNTY, Ss.

I, Wilbur F. Hinman, Clerk of the Court of Common Pleas, a Court of Record of Cuyahoga County, aforesaid, do hereby certify that L. A. Wilson, before whom the annexed acknowledgement was taken, was, at the date thereof, a Notary Public in and for said County, duly authorized by the laws of Ohio to take the same, and that I am well acquainted with the handwriting, and believe his signature thereto is genuine.

In Testimony Whereof, I hereunto subscribe my name and affix the seal of said Court, at Cleveland, this 28th day of April, A.D., 1880.

[L. S.]

WILBUR F. HINMAN, Clerk.

CONSTITUTION.

ARTICLE I.

This Association shall be called "THE OHIO STATE PHARMACEUTICAL ASSOCIATION."

ARTICLE II.

The object of this Association shall be to unite the reputable pharmacists and druggists of this State, to improve the science and art of pharmacy, to elevate its standard, and to restrict the practice of pharmacy to properly qualified pharmacists and druggists.

ARTICLE III.

Every pharmacist and druggist of good moral and professional standing, and of legal age, whether in business on his or her account, retired from business, or employed by another, and teachers of pharmacy, materia medica, chemistry and botany, who may be especially interested in pharmacy, shall be eligible to membership.

ARTICLE IV.

This Association shall meet annually at such time and place as shall be previously determined.

ARTICLE V.

The officers of this Association shall be a president, two vice presidents, a permanent secretary, assistant secretary, a permanent treasurer, and an executive committee of three, all of whom, except the permanent secretary and treasurer, shall be elected annually by ballot, and serve until their successors are duly elected.

ARTICLE VI.

Every proposition to alter or amend this Constitution shall be in writing, and shall be acted upon at the next annual meeting; when, upon receiving the vote of three-fourths of the members present, it shall become a part of the Constitution.

BY-LAWS

CHAPTER I.

DUTIES OF OFFICERS.

- ARTICLE I. The president shall preside at all meetings of the Association. In his absence or inability to preside, one of the vice presidents, or in the absence of all, a president pro tempore shall perform the duties of the president. In all ballotings, and upon all questions upon which the ayes and nayes are taken, the president is required to vote; in other cases he shall not vote unless the members be equally divided. He shall call a special meeting, whenever requested by twenty-five members, and present at each annual meeting a report of the operations of the Association.
- ARTICLE 2. The secretary shall keep a record of the proceedings of the Association, a list of the names, residences, and date of entrance of each member, and be the custodian of all papers read; he shall conduct all correspondence of the Association, and notify each member of the meetings. He shall also publish and distribute the annual proceedings of the Association, having previously obtained the consent o the executive committee to the necessary expenditure of money.
- ARTICLE 3. The treasurer shall have charge of all the funds of the Association, for which he shall be personally responsible; collect all moneys due the Association; pay all bills when countersigned by the president; issue certificates of memberslip; render a full report of each annual meeting, and report the state of the treasury when called upon by the executive committee.
- ARTICLE 4. The executive committee shall take into consideration, and report without delay, on all matters of business, and on all propositions for membership, and audit all bills against the Association.

CHAPTER II.

MEMBERSHIP.

- ARTICLE 1. Propositions for membership shall be made to the executive committee, in writing, with the indorsement of two members of the Association in good standing; and the vote of two-thirds of the members present at any session shall be required for election.
- ARTICLE 2. No person shall be considered a member of this Association until he has signed the Constitution and By-Laws, and paid an initiation fee of two dollars and the annual contribution for the current year.
- ARTCLE 3. Every member shall pay in advance to the treasurer one dollar as his yearly contribution, and shall forfeit his membership by neglecting to pay said contribution for three successive years.

- ARTICLE 4. Resignations of membership shall be made in writing to the secretary; but no resignations shall be accepted from any one who is in arrears to the treasury, nor until he has surrendered his certificate of membership.
- ARTICLE 5. The Association shall have power to expel a member by a two-third vote; but the vote shall not be taken until the next annual meeting after the charges have been preferred, and the accused shall be notified of the charges and specifications made against him.
- ARTICLE 6. Pharmacists, chemists, and other scientific men who may be thought worthy of the distinction, may be elected honorary members. They shall not, however, be required to contribute to the funds, nor shall they be eligible to hold office or vote at the meetings.
- ARTICLE 7. Pharmacists, chemists, and other scientific men who are, or have been, active members of this Association, and have removed from the State of Chio, may be elected to associated membership. They shall not be required to contribute to the funds of the Association, nor shall they be eligible to hold office or vote at the meetings.
- ARTICLE 8. Active members of this Association in good standing for at least five years, may have issued to them by the secretary a certificate of life membership, upon the payment of ten dollars into the treasury of the Association.

CHAPTER III.

MERTINGS.

ARTICLE 1. Fifteen members shall constitute a quorum for the transaction of business,

ARTICLE 2. The order of business shall be as follows:

1. Calling roll.

5. Election of officers.

2. Reading minutes.

6. Reading communications.

3. Election of members.

7. Reports of committees.

4. Report of officers.

8. Miscellaneous business.

CHAPTER IV.

RULES OF ORDER.

- ARTICLE I. The ordinary rules of parliamentary bodies shall be enforced by the presiding officer; from whose decision, however, appeals may be taken, if required by two members, and the meeting shall thereupon decide without debate.
- ARTICLE 2. When a question is regularly before the meeting, and is under discussion, no motion shall be received but to adjourn, to lay on the table, for the previous question, to postpone to a certain day, to commit or amend, to postpone indefinitely—which several motions have precedence in the order in which they are awanged. A motion to adjourn shall be decided without debate.
- ARTHCLE 3. No member shall speak twice on the same subject, except by permission, until every member wishing to speak has spoken.

ARTICLE 4. On the call of any two members, the yeas and nays shall be ordered, when every member shall vote, unless excused by a majority of those present, and the names and manner of voting shall be entered on the minutes.

CHAPTER V.

COMMITTEES.

ARTICLE 1. The president shall appoint the following committees, viz.:

A committee of three members on matters of trade interests.

A committee of three members on papers and queries.

A committee of five members on pharmacy laws.

A committee of five members upon matienal formulæ.

A committee of one member for each county on State and county correspondence.

A committee of three members on adulteration and sophistication.

ARTICLE 2. Five delegates and five alternates shall be annually elected to attend the meetings of the American Pharmaceutical Association.

ARTICLE 3. The president shall, at the first session of the regular meetings, appoint a committee of nine to nominate officers for the Association, who shall report at the next session.

CHAPTER VI.

MISCELLANEOUS.

ARTICLE I. Every proposition to alter or amend these By-Laws shall be submitted in writing, and may be balloted for at any subsequent session; when, upon receiving a vote of two-thirds of the members present, it shall become a part of the By-Laws.

ARTICLE 2. No one, or more, of these By-Laws shall be suspended.

OHIO PHARMACY LAW.

[Senate Bill No. 6.]

AN ACT

To amend Sections 4405, 4406, 4407, 4408, 4409, 4410, 4411, and 4412 of the Revised Statutes of Ohio.

SECTION 1. Be it enacted by the General Assembly of the State of Ohio, That sections forty-four hundred and five, forty-four hundred and six, fortyfour hundred and seven, forty-four hundred and eight, forty-four hundred and nine, forty-four hundred and ten, forty-four hundred and eleven, [and] fortyfour hundred and twelve of the revised statutes of Ohio, be so amended as to read as follows:

SECTION 4405. It shall be unlawful for any person not a registered

store as proprietor thereof, unless he shall have in his employ and place in

Who must employ a registered pharmacist, pharmacist to open or conduct any pharmacy or any retail drug or chemical

charge of such pharmacy, or store, a registered pharmacist within the meaning of this chapter, who shall have the supervison and management of that part of the business requiring pharmaceutical skill and knowledge; or to engage in the occupation of compounding or dispensing medicines on perscriptions of physicians, or of selling at retail for medicinal purposes, any drugs, chemicals, poisons, or pharmaceutical preparations within this State until he has complied with the provisions of this chapter; provided, nothing in this Proviso. section shall apply to, or in any manner interfere with, the business of any physician, or prevent him supplying to his patients such articles as may seem to him proper, or to the making or vending of patent or proprietary medicines by any retail dealer, or with the selling by any country store of copperas, borax, blue vitriol, saltpetre, sulphur, brimstone, licorice, sage, juniper berries, senna leaves, castor oil, sweet oil, spirit of turpentine, glycerine, Glauber salt, epsom salt, cream of tartar, bi-carbonate ot sodium; and of paregoric, essence of peppermint, essence of cinnamon, essence of ginger, hive syrup, syrup of ipecac, tincture of arnica, syrup of tolu, syrup of squills, spirit of camphor, number six, sweet spirit of nitre, compound cathartic pills, quinine pills, and other similar preparations when compounded by a regular

retail drugs.

Who may

Appointment of the Ohio Board

dealer.

SECTION 4406. The Ohio State Pharmaceutical Association shall, of Pharmacy. immeadiately upon the passage of this act, submit to the governor the names of ten persons re-iden's of this State, who have had at least ten years' exper-

pharmacists, and put up in bottles and boxes bearing the label of such pharmacists or wholesale druggist, with the name of the article and directions for its use on each bottle or box, or with the exclusively wholesale business of any

ience as pharmacists and druggists, and from the names so submitted to him or others the governor shall, with the approval of the Senate, select and appoint five persons, who shall constitute a board, to be styled the Ohio Board of Pharmacy; one member of said board shall be appointed, and hold his office for one year; one for two years, one for three years, one for four years, and one for five years, and until his successor shall be appointed and qualified; and at its regular annual meeting in each and every meeting thereafter, the said Ohio State Pharmaceutical Association shall select and submit to the governor the names of five persons, with the qualification hereinbefore mentioned, and the governor shall, with the approval of the Senate, select and appoint from the names so submitted, or others, one member of said board, who shall hold his office for five years, until his successor shall be ap- Vacancy in the pointed and qualified. Any vacancy that may occur in said board shall be filled for the unexpired term by the governor, with the approval of the Senate. Each member of said board shall, within ten days after his appointment, take and subscribe an oath of affirmation, before a compentent officer, to faithfully and impartially perform the duties of his office.

SECTION 4407. The Ohio Board of Pharmacy shall hold three regular Sessions of the meetings; in each year; one at Cincinnati on the second Monday of Jaruary, Board, when one at Columbus on the second Monday of May, and one at Cleveland on the second Monday of October, and such additional meetings, at such times and places as may be determined upon by said board, at each of which meetings it shall transact such business as is required of it by law; said board shall make Duties of Board. such rules, by-laws and regulations as may be necessary for the proper discharge of their duties, and shall make a report of its proceedings, including an itemized account of all moneys received and expended by said board, Book of Regispursuant to this chapter, and a list of all pharmacists duly registered under tration to this act, to the secretary of state on the 15th day of November, 1884, and annually thereafter, and to the Ohio State Pharmaceutical Association. Said board shall keep a book of registration open at some place in Columbus, of which due notice shall be given in three or more newspapers of general circulation in this State, in which the name and place of business of every person duly quirlified under this chapter to conduct, or engage in the business mentioned and described in section forty four hundred and five, shall be registered. Every person now conducting or engaged in such business in this State as proprietor or manager of the same, or who, being of the age of eighteen years, has been employed or engaged for three years preceeding the passage of this act as an assistant in any retail drug store in the United States, in the compounding or dispensing of medicines on the perscriptions of physicians, who shall furnish satisfactory evidence in writing and under oath of such facts, within three months after the publication of said notice, shall be registered as a pharmacist, or assistant pharmacist, as the case may be, without examination. Every per- Fee for registrason who shall desire hereafter to conduct, or engage in such business in this tion. State, shall appear before said board, and be registered within ten days after

held.

receiving a certificate of competency and qualification from said board. The said board shall demand and receive for such registration from each and every person registered as a pharmacist, a fee of not exceeding three dollars, and from each and every person registered as an assistant pharmacist, a fee not exceeding two dollars, to be applied to the payment of the expenses arising under the provisions of this chapter. Provided, however, that no such fee shall be demanded of any person who has heretofore been registered as the pro-Fee for renewal prietor or manager of such business or as an assistant therein, under the proof registration. visions of any law heretofore in force in this State. Every registered pharmacist, or assistant pharmacist, who desires to continue the practice of his

profession, shall, triennially thereafter, during the time he shall continue in such practice, on such date as said board may determine, pay to the secretary of said board a registration fee, to be fixed by said board, but which shall in no case exceed, if a pharmacist, one dollar; if assistant pharmacist, fifty cents, for which he shall receive a renewel of said registration. Every certificate of registration granted under this act shall be conspicously exposed in the prescription department of the drug or chemical store to which it applies, or in

tary & Board.

which the assistant is engaged. The setretary of said board shall receive a Salary of Secre-salary which shall be fixed by said board; he shall also receive his travelling and other expenses incurred in the performance of his official duties. The other members of said board shall receive the sum of thuse dollars for

each day actually engaged in the service thereof, and all legitimate and necessary expenses incarred in attending the meetings of said bound. Said salary per diem, and expenses shall be paid after an itemized statement of the same has been rendered and approved by the based, from the fets and penalties received by said board under the provisions of this act. All moneys-received how diposed of in excess of said per them allowenge, and other expenses showe provided for,

shall be held by the secretary as a special fund for ameting the empature of said board; he giving such bond as said board shall from time to time dhatt

Excess of fe

Duties of Board with respect to examinations.

SECTION 4408. The Ohio Board of Pharmacy shall examine every person who desires to carry on or engage in the business of a retail apothosary, or of retailing any drugs, medicines, chemicals, poisons, or phasmacentical preparations, or of compounding or dispensing the prescriptions of physicians, as proprietor and manager, touching his competency and qualification for that purpose, and upon a majority of the board being satisfied of such competency and qualification, they shall-furnish such person a certificate of his competency and qualification, as pharmacist, which certificate shall entitle the person named therein to conduct and carry on the business aforesaid, as proprietor and manager thereof, upon complying with the requirements of section forty-four hundred and seven; and such board shall also examine each person who desires to engage in such business as assistant pharmacist, touching his competency and qualification, and upon such person passing a satisfactory examination, setting forth that he is a qualified assistant in phasmacy,

which certificate shall enable the person named therein to engage in said business as an assistant pharmacist, upon his complying with the provisions of section forty-four hundred and seven.

SECTION 4409. The provisions of [section] forty-four hundred and To whom preeight shall not apply to any person engaged in the retail drug and apothecary business, as proprietor or manager of the same, at the time of the passage of this act, or who, being at the age of eighteen years, has been continuously employed or engaged for three years immediately preceeding the passage of this act, as assistant in any retail drug store in the United States, in the compounding or dispensing of medicines on the prescriptions of physicians, who has complied with the provisions of section forty-four hundred and seven.

apply.

SECTION 4410 (as amended March 20th, 1884.) No person not a qual. Assistant Pharfied assistant, shall be allowed by the proprietor or manager of any retail drug or chemical store, to compound or dispense the perseriptions of physicians, except as an aid under the supervison of a registered pharmacist, or his qualified assistant.

qualified.

SECTION 4411 (as amended March 29th, 1884). A qualified assistant, Qualifications of within the meaning of this chapter, shall be a clerk or assistant in a retail drug or chemical store, who shall furnish to the Ohio Botrd of Pharmacy such evidence of his employment as is required by section forty-four hundred and seven; or a person holding the certificate of said board, as an assistant pharmacist, as provided in section forty-four hundred and eight; but it shall be unlawful for such assistant pharmacist, or qualified assistant, to supervise or manage any pharmacy or retail drug or chemical store, or to engage in the occupation of compounding or dispensing medicines on prescriptines of physicians, or of selling at retail for medicinal purposes, any drugs, chemicals, poisons, or pharmaceutical preparations, except when engaged or employed in a pharmacy, retail drug or chemical store, which is in charge of and is under the supervison and management of a registered pharmacist.

SECTION 4412 (as amended March 20th, 1884). Any person owning a Penalties for viopharmacy, retail drug or chemical store, who, in violation of the provisions of section 4405 of this act, causes or permits the same to be conducted or managed by a person not a registered pharmacist, shall be deemed guilty of a misdemeanor, and upon conviction thereof, shall be fined in any sum not less than twenty dollars, nor more than one hundred dollars, and each week that he shall cause or permit such pharmacy, retail drug or chemical store to be so conducted or managed shall constitute a separate and distinct offenceand render him liable to separate prosecution and punishment therefor; a per- Penalties for vioson violating the provisions of section forty-four hundred and seven, relating to registration, senewal of registration, or failing to conspicuously expess such certificate of registration, shall be deemed guilty of a misdemeanor, and upon

lating section

lating section

lating section 4410.

conviction thereof shall be fined in any sum not exceeding one hundred dol-Penalties for vio- lars for each week he continues to carry on or to be engaged in such business without such registration or such exposure of such certificate of registration, or renewal thereof. And for the violation of any of the provisions of section 4410, such proprietor or manager shall be deemed guilty of a misdemeanor,

lating section 44 I I

Penalties for vio- and upon conviction thereof shall be fined in any sum not exceeding fifty dollars for each and every offense; and for the violation of any of the provisions of 4411, such assistant pharmacist shall be deemed guilty of amisdemeaor, and upon conviction thereof shall be fined in any sum not exceeding fifty dollars for each and every offense. All fines assessed for the violation of any of the provisions of this act shall be placed in the county treasury, for the use and benefit of the common school fund of the county in which such offense is committed; provided that nothing in this act shall be construed as to in any way affect the right of any person to bring a civil action against any person referred to in this act, for any act or acts for which a civil action may now be brought. It shall be the duty of the Ohio Board of Pharmacy, upon application therefor being made to said board, to cause the prosecution of any person or persons violating any of the provisions of this act.

Duty of the Board of Pharmacy upon application to cause prosecution.

ADULTERATION LAW.

[Hous- Bill No. 18.] AN ACT

To provide against the adulteration of food and drugs.

SECTION I. Be it enacted by the General Assembly of the State of Ohio, That no person shall, within this State manufacture for sale, offer for sale, or sell any drug or article of food which is adulterated, within the meaning of this act.

Term drug defined.

SEC. 2. The term "drug" as used in this act, shall include all medicines for internal or external use, antiseptics, disinfectants and cosmetics. "food" as used herein, shall include all articles used for food or drink by man, whether simple, mixed or compound.

SEC- 3. An article shall be deemed to be adulterated within the meaning of this act:

When drugs are deemed adulterated.

1 8 . 4 . 2.

(a) In the case of drugs: (1) If, when sold under or by a name recognized in the United States Pharmacopæia, it differs from the standard of strengthquality or purity laid down therein; (2) If, when sold under or by a name not recognized in the United States Pharmacopæia but which is found in some other pharmacopæia, or other standard work on materia medica, it differs materially from the standard of strength, quality or purity laid down in such work; (3) If its strength, quality or purity falls below the professed standard under which it is sold.

(b) In the case of food: (1) If any substance or substances have been When food deemmixed with it, so as to lower or depreciate, or injuriously affect its quality, strength or purity; (2) If any inferior or cheaper substance or substances have been substituted wholly or in part for it; (3) If any valuable or necessary constituent or ingredient has been wholly or in part abstracted from it; (4) If it is an imitation of, or is sold under the name of another article; (5) If it consists wholly or in part, of a diseased, decomposed, putrid, infected, tainted or rotten animal or vegetable substance or article, whether manufactured or not -or, in case of milk, if it is the produce of a diseased animal; (6) If it is colored, coated, polished or powdered, whereby damage or inferiority is concealed, or if by any means it is made to appear better or of greater value than it really is; (7) If it contains any added substance or ingredient which is poisonous or injurious to health, or any deleterious substance not a necessary ingredient in its manufacture; provided that the provisions of this act shall not apply to mixtures or compounds recognized as ordinary articles of food, if the same be distinctly labeled as mixtures or compounds, and are not injurious to health, and contain no ingredient not necessary to the preparation of a genuine article of such mixtures or compounds, and from which no necessary ingredient in its preparation is eliminated.

ed adulterated.

SEC. 4. Every person manufacturing, offering or exposing for sale or deliv- Sample may ering to a purchaser, any drug or article of food included in the provisions of analysis. this act, shall furnish to any person interested or demanding the same, who shall apply to him for the purpose, and shall tender him the value of the same, a sample sufficient for the analysis of any such drug or article of food which is in his possession.

- SEC. 5. Whoever refuses to comply, upon demand, with the requirements Penalties. of section four, and whoever violates any of the provisions of this act, shall be guilty of a misdemeanor, and upon conviction shall be fined not exceeding one hundred nor less than twenty-five dollars, or imprisoned not exceeding one hundred nor less than thirty days, or both. And any person found guilty of manufacturing, offering for sale or selling an adulterated article of food or drug under the provisions of this act, shall be adjudged to pay, in addition to the penalties hereinbefore provided for, all necessary costs and expenses incurred in inspecting and analyzing such adulterated articles of which said person may have been found guilty of manufacturing, selling or offering for sale.
- This act shall take effect and be in force in forty days from and after its passage.

A. D. MARSH, Speaker of the House of Representatives. ELMER WHITE, President pro tem. of the Senate.

Passed March 20, 1884.

POISON LAW.

Sec. 6957 Revised Statutes of Ohio.

Whoever sells, or gives away, any quantity of arsenic less than one pound, without first mixing therewith soot or indigo in the proportion of one ounce of soot or half an ounce of indigo to the pound of arsenic, or, except upon the prescription of a physician, sells or gives away, any quantity of any article belonging to the class usually denominated poisons, to any minor, or sells, or gives away, any such article to any person, without having first marked the word "poison" upon the label or wrapper containing the same, and registered in a book to be by him kept for that purpose, the day and date upon which it is sold or given away, the quantity thereof, the name, age, sex, and color of person obtaining the same, the purpose for which it is required, and the name and place of abode of the person for whom the same is intended, shall be fined not more than two hundred nor less than twenty dollars. [50 V. 167, §§ 1, 2, 3, 4.]

MORPINE LAW.

[House Bill No. 66.]

To prescribe the manner of selling the sulphate and other preparations of morphine in the State and for other purposes.

SECTION I. Be it enacted by the General Assembly of the State of Ohio, That it shall not be lawful for any person, other than a wholesale druggist or other dealer in drugs and medicine, to sell or offer for sale at wholesale, or for any person other than a registered pharmacist or a registered assistant pharmacist, to sell or offer for sale at retail, morphine or any of its salts, in this State, and it shall not be lawful for such persons to sell or offer for sale morphine or any of its salts in any bottle, vial, envelope or other package, unless the same shall be wrapped in a scarlet paper or envelope, and all bottles or vials used for the above purpose shall contain not more than one drachm each, and shall have in addition to said scarlet wrapper a scarlet label lettered in white letters, and the same must be upon both vial and wrapper when vials are used, plainly naming the contents of said bottle; and further, that no person shall have the right to change any preparation of morphine from its original package to any other receptacle whatever for the purpose of retailing or dispensing therefrom, but it must be retailed or dispensed only from the original package with scarlet wrapper and scarlet label as aforesaid.

SECTION 2. That any one violating the provisions of the above section shall be guilty of a misdemeanor, and on conviction thereof shall be fined not less than ten nor more than fifty dollars, at the discretion of the court, for each and every violation of the preceding section.

SECTION 3. That all laws and parts of laws in conflict with this act be and the same are hereby repealed.

SECTION 4. This act shall take effect and be in force from and after September 1, 1886.

JOHN C. ENTREKIN,

Speaker of the House of Representatives.

JNO. O'NEILL,

President pro tem of the Senate.

Passed April 8, 1886.

LIST OF MEMBERS

IN ATTENDANCE AT THE

Ninth Annual Meeting, June 8th, 9th and 10th, 1887.

•	
Acker, PCleveland	Hall, C. FYoungstown
Albro, W. HMedina	Hart, D. PAkron
Alexander, W. W Akron	Hechler, G. LCleveland
Allen, S. EAkron	Hill, C. ERichwo od
Baird, R East Springfield	Himmelman, G. CAkron
Beck, J. ISpringfield	Hitchman, A.AButler
Bellermann, J. HLancaster	Honecker, A. BCleveland
Benedict, D. D., M.D Norwalk	Honecker, J. J Cleveland
Berg, F Upper Sandusky	Hopp, L. C Clevel an
Bevard, H	Horst, J. H
Biddle, H. G	Huston, C Columbus
Byrider, JohnAkron	Inman, C. TAkren
Blankenhorn, HOrrville	Inman, S. CAkron
Bort, L. OLogan	Jewett, W. ALorain
Boyer, H Washington C. H	Johnson, TSteubenville
Bubna, J. V	Kautz, F. ACincinnati
Cassaday, A. S Alliance	Keiper, LCleveland
Coblentz, F. HSpringfield	Kieffer, GCleveland
Coblentz, VSpringfield	Kneeland, C. AConneaut
Cook, H. CColumbus	Koons, C. WCleveland
Cornet, G. A Port Washington	Krauter, C. H Youngstown
Crane, R. WGreensburg	Kuhlmeier, H
Culler, F. WCleveland	Lane, E. BCleveland
Davis, C. W Jeffersonville	Lehr, Phil
Davis, W. PAkron	Lewis, A. CBucyrus
Doran, I. ARushsylvania	Lewis, A. L
Eady, H. JElyria	Lewis, B. GGirard
Emrich, J. HSandusky	Lloyd, J. U Cincinnati
Feil, JCleveland	Lynn, G. AAkron
Fennel, C. T. PCincinnati	McClain, M. HGalion
Fenton, C. F Cleveland	McDowell, O. H Medina
Flandermeyer, H. HCleveland	McFarland, T. DCanton
Flandermeyer, H. D Cleveland	McKeown, S. WYoungstown
Frederick, J. FToledo	Martin, W. J Cincinnati
Fulton, M. DBucyrus	Meyer, W. VCleveland
Griffiths, HCincinnati	Miller, C. MMansfield
Grossklaus, J. FNavarre	Morganthaler, PMassillon
Hackedorn, M. LGalion	Murray, S. WWashington C.H
Hale, W. F., M.D Jackson C. H	Neff, B New Carlisle

ALPHABETICAL LIST OF ACTIVE MEMBERS.

*New Members.

Abbey, JDayton	Barrere, G. WLims
Abbey, W. JDayton	Barr, S. ECantor
Acker, P Cleveland	Barringer, D., M.DRocky Ridge
Ackermann, J. CColumbus	Bartlett, WToledo
Adams, A. A	Batterson, Mrs. E. F Belleville
Adderley, W. HCincinnati	Bauer, F. AColumbus
Aigin, S. CDelaware	Baumgartner, FChillicothe
Albro, W. HMedina	*Baumhart, C. CVermillion
Alexander, E. V McConnellsville	Baush, K. MZanesville
Alexander, W. WAkron	Bayer, E. W
Allen, E. H	Beall, A Williamsburg
Allen, S. EAkron	Beall, W. MSteubenville
*Altenberger, P. JUpper Sandusky	*Beam, J. H Powhatan Poin
Amann, CSidney	Beany, W. W Steubenville
Amann, C. E., Sr Portsmouth	Beard, J. M Spencerville
Amann, C. E., Jr Portsmouth	Beardsley, W. P Bainbridge
Amann, FPortsmouth	Beck, J. ISpringfield
Amann, F. OSidney	Beck, J. WLancaster
Anderson, W. P Marysville	Belford, Dr. E. ANevada
Arnold, D. RSandusky	Bellermann, J. HLancaste
Ashbrook, C. SAda	Benedict, D. D., M.DNorwall
Atchison, J. RLondon	*Benfield, C. WCleveland
Averbeck, M. JYoungstown	Benner, C. CColumbus
Ayers, J. M., M.DCincinnati	Bentley, E. SHudsor
Ayers, M. ACincinnati	Berg, FUpper Sandusky
Bach, W. JEast Toledo	Berger, J. W Columbus
Bain, A. W	Betz, O. ECincinnati
Bain, F. W	Bevan, JMendon
Baird, REast Springfield	Bevard, H Canal Fulton
Baker, G. RMt. Vernon	Biehl, L. ASandusky
Baker, P. AMt. Vernon	Biddle, H. GCleveland
Bakhaus, ASpringfield	Bigler, O
Baldwin, F. MBlanchester	Black, C. TRipley
Ballenger, C. SAkron	Black, W. RFindlay
Baltzley, Z. T Massillon	Blankenhorn, HOrrville

*Blaser, J. TWaverly	Busch, A
Blehr, J. CNew Richmond	Busch, E., M.D
Blocker, H. CAkron	Busch, H. C., M.DCleveland
Blum, F. JCanton	*Byrider, JAkron
Bock, A. WCleveland	Byrne, J Columbus
Bock, FCleveland	Cadwell, S. DAkron
Bodebender, WCleveland	Campbell, W. JLaRue
Boehmer, A. L	Carey, M. J., M.DWoodville
Bohl, CWatertown	Carlisle, F.LNewton Falls
Bohn, J. HCamden	Carnahan, JSteubenville
Bohn, M. G Miamisburg	Carnahan, W. GSteubenville
*Boise, J. C Seville	Carnell, H. D
Bolger, J. CSalem	Carothers, WCarey
Bonar, R. S New Lexington	Carpenter, J. HCleveland
Bonnell, D. W	Carpenter, S. WDelhi
*Bonner, C. A	Carter, G. H Delaware
*Bort, L. OLogan	Case, F. SLogan
Bower, F. TToledo	Case, F. SBellefontaine
Boyd, S. H	Case, J. HAkron
Boyer, HWashington C. H	Case, L
Bracelin, HBluffton	Casper, T. J., M.DSpringfield
Bradley, QWest Jefferson	Cassaday, A. SAlliance
Braun, HColumbus	Chadwick, W. MFindlay
Brant, E.D	Champney, A. RPerrysburg
Brenner, C. ELima	Champney, W. R Perrysburg
Brinker, J. HBellevue	Chappelear, F. BZanesville
Brown, F. ANew Lisbon	Chapman, C. F
Brown, T. F Washington C. H	Charles, X. FRepublic
Brown, W. CColumbus	Cheney, F. JToledo
Brown, W. GWilmington	Clark, C. A :
Brodbeck, W. TColumbus	Clark, S. L
Bruce, JCleveland	*Claus, G. T Cleveland
Bruck, P. HColumbus	Clayton, E. PSomerset
Bryant, C. WGranville	Cleaveland, C. AGreenfield
*Bubna, J. VCleveland	Cobb, L. ACleveland
Buchanan, C. R	Cobb, R. LCleveland
Buckwell, A. JToledo	Coblentz, F. HSpringfield
Bukey, J. S	*Coblentz, GSpringfield
Burgitt, J. L	Coblentz, VSpringfield
Burger, A Toledo	Cokefair, C. B College Corners
*Burgess, M. SCaldwell	Colby, W. DDefiance
Burgoyne, W. R Steubenville	Cole, C. W
Burkhardt, M. A	Coleman, J. GMineral
Burton, G. FSprinfield	Collett, O. FNew Burlington

Collins, E. AWauseon	Dew, J. TSummerfield
Collins, F. ANewark	Dick, CSandusky
Colwell, J. MUrbana	Deitz, J. CDayton
Conkright, A. BRichwood	Dixon, G. MDayton
Cennor, J. O	Dodge, J. MCincinnati
Cook, F. MFrospect	Doeller, G
Cook, H. CColumbus	Donnelly, F. H
Cook, H. D East Toledo	Donnan, E. V Washington C. H
Cook, J. RColumbus	Doran, I. ARush sylvania
Cook, W. S East Toledo	Douds, A. HCanton
Cornell, C. RColumbus	Downar, J. RCambridge
*Cornet, G. A Port Washington	Doyle, S. W
Cornet, L. APort Washington	*Drach, G. LCleveland
Cramer, G. W	Dreher, LCleveland
Cramer, S. P Hubbard	Dresky, J. J
Crane, E. JIberia	Dronberger, L. RJamestown, N.Y
Crane, R. W Greensburg	Dull, L. EForest
Crites, H Akron	Dunlap, G. GUnionport
Crosby, C. MToledo	Dunn, F. HBainbridge
*Culler, F. WCleveland	Durstine, F. H., M.DCleveland
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Currey, J N Georgeto an	Edwards, E. BColumbus
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Danforth, E. CToledo	Edwards, J. WBellaire
Daniels, TToledo	Eger, GCincinnati
Darrah, D. HBellaire	Eichberg, J. HCincinnati
Daugherty, J. UDayton	*Eisenhour, C. LMassillon
Davies, J. EWest A'exandria	Elfers, J. CCincinnati
*Davis, C. WJeffersonville	*Ellis, T. B Washington C. H
Davis, J. MChillicothe	Ely, E. SBarnesville
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Davis, W. H. C	Emrich, J. HSandusky
Davis, W. PAkron	Eshelman, L. JFostoria
*Dean, A. HWaverly	Evans, H. W
Dean, W. D	Evans, J. S
Deemer, C. HNew Lisbon	Evans, J. WDelphos
DeLang, ACincinnati	Evans, S. BCircleville
Denman, W. MWest Unity	Eyman, L. EGroveport
Denison, L	Fabing, JCincinnati
Dent, J. CBridgeport	Fallon, J. M
De Rhodes, FSalem	*Farquhar, WBucyrus
Deutler, S. S Republic	Farrell, H. JXenia
Deutsch, J. WCleveland	Feil, JCleveland

Farley, W. CBellaire	Fromme, A
Felt, F. DWellington	Fuelling, DWapakoneta
Feemster, J. H	Fulton, M. DBucyrus
Feemster, W	Gable, DWest Salem
Fennel, C. T. PCincinnati	Gackenheimer, D. F Van Wert
Fenner, G. HCleveland	Gackenheimer, M. WVan Wert
Fenner, J. CShiloh	Gaitree, W. BMarietta
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*Ferguson, J. RCleveland	*Gaube, ECleveland
Fickardt, F.LCircleville	Gaylord, H. CCleveland
Fiedler, G. WSouth Paris	Gegelein, F. LCleveland
Field, J. W	Gehrung, J. MCleveland
Finfrock, M. V. BMansfield	George, A. HCleveland
Fisher, ABurbank	George, R. HCleveland
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Fisher, J. V Morristown	Gilbert, H. ALockland
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Flandermeyer. H. DCleveland	*Gilman, C. SAkron
Flandermeyer, H. H Cleveland	Gleick, H. MCincinnati
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Flood, W. H Cleveland	Godfrey, C. PDayton
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Foley, J. BSteubenville	Goodbread, J. NNevada
Foncanon, G. ULiberty Center	Goodman, ECincinnati
Forbes, J. W	Gordon, W. J. MCincinnati
Foraker, J. WCorning	Graham, A., JrOttawa
Forrest, J. TCleveland	Graham, C. VZanesville
Fortlage, J. HCleveland	Graham, W. HZanesville
Foster, A. MSteubenville	*Grayum, C. W
Francis, H. S	Greenamyer, E., M.DEast Palestine
Franke, A	Grether, JAkron
Fraser, H. J East Palestine	Greve, T. L. A
Fratz, J. G	Griffith, H. H
*Frederick, J. MAkron	Groenland, R
French, L. BSalem	Grosse, W. FCleveland
Friedland, J. FCoalton	Grossklaus, J. FNavarre
*Friedrick, J. FToledo	Grossman, F. ACleves
"Filedrick, J. F	Grossman, F. ACleves

†Correspondent for Marion Co. in place of E. C. Walt.

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Grund, H. CFremont	Herbst, F. WCo
Guthrie, J. HConneaut	Herwig, G. A Cincinnati
Gysel, RToledo	Heydrick, LToledo
Haag, G. DCleveland	Hickman, W. GNelsonville
Haber, L. ACleveland	Hickok, H. M Ashtabula
*Haefele, G. L., M.D West Richfield	#Hildaboldt, C. WGermantown
Hackedorn, M. LGalion	Hildreth, N. GCheviot
Hale, S. JAvondale	Hill, C. ERichwood
Hale, W. F., M.D Jackson	Hill, F. PElyria
Hall, C. FYoungstown	Hilton, L. R Ilillsboro
Hall, L. BCleveland	Himmelman, G. CAkron
Hall, W. J Cincinnati	*Hines, J. AVan Wert
Hamlin, R. E East Toledo	Hinds, J. WMarion
Hank, T. B., M.DSylvania	Hitchman, AButler
Hare, ABettsville	Hoberman. H. C Marion
*Harley, J. PLima	Hochstetler, J. C Doylestown
Harmon, M.MColumbus	Hoehn, JCleveland
*Harper, C. BLeetonia	Hoffman, J Cincinnati
Harrington, FLogan	Hoffman, J. L New Bremen
Harrison, J. M	Hoffman, O. LColumbus
Hart, D. PAkron	Hofling, A. JCincinnati
Hart, W. T	Hoge, J. BSt. Clairsville
Hartness, W. HCleveland	Holman, H. N Columbus
Hatton, E. MZanesville	Hollenbeck, E. F Cincinnati
Hauck, TColumbus Grove	Hollenbeck, M. W Cincinnati
Hauenstein, ABluffton	Hollinger, TColumbus
Hauser, J. CSandusky	*Holloway, W. GSpringfield
Hauss, J. JSt. Marys	Honecker, ACleveland
Haven, W. H Findlay	Honecker, J. JCleveland
Hawkins, M. SSalem	Hoopes, W. W
Hawkins, R. LCincinnati	Hoover, Z. T
Hawley, A. KJefferson	Hopp, L. CCleveland
Hawthorn, D. MCambridge	Hornung, J Dresden
Heath, F. M White House	Horst, J. HCleveland
Hebner, ADayton	Hosach, CFrederickstown
Hechler, G. LCleveland	Hovekamp, J. J Cincinnati
Heinemann, O	Howson, A. BChillicothe
Heinemann, A	Howson, W. H
Heister, J. P	Hoy, B. F
*Heister, U. SSpringfield	Hubbard, E. B Tiffin
Heitzman, AToledo	Huber, J. MFindlay
Heller, M. MCleveland	Hudson, W. JSouth Charleston
Henderson, C. BAthens	Hull, H. M
Henkelman, H. KSandusky	Huston, CColumbus
irennerman, ii. ix	reasion, CColumbus

Huston, J. CCollege Corner	Kells, H. B	Steubenville
Hutchings, J. HBellevue	Kerr, C. D	Gallipolis
Hutchison, J. CCambridge	Kieffer, G	Cleveland
*Hutt, P	Kilbourne, H. A	
Hyers, W. HDayton	King, F. H	
Ink, C. EColumbiana	Kiplinger, J. W	
Ink, H. H Leetonia	Kipp, W	
Inman, C. TAkron	Kirkenda'l, C. F	
Inman, S. CAkron	Kirchhofer, P. P	
Ireman, J. WWharton	Klahr, J. A	
Irwin, J. L Ann Arbor, Mich	Klayer, C. F	
*Isaacs, B. S	Klayer, L	
Jacobi, A	Klein, D	
Jeffrey, D. GTiro	Klein, S	
Jeffrey, F. MTiro	Knapp, D. A	
Jewitt, W. ALorain	Kneeland, C. A	
Johnson, C. B Middleton	Koehnken, H. H	
Johnson, C. SNew Concord	Koenig, J. H	Cincinnati
Johnson, J. D	Koch, H	
Johnson, J. MSteubenville	Kolb, A	
Johnson, J. RZanesville	Koons, C. W	
Johnson, TSteubenville	*Krauter, C. H	
Johnson, W.HMiddletown	Kuerze, R. M	
*Johnson, W. RSteubenville	Kuhlméier, H	
Johnston, F. TBucyrus	Kuqua, S. J	
Jones, J. W	Kurfurst, H. F	
Jones, T. A Venedocia	*Kutchbauch, J. F	
Jones, W. DNewark	Kylius, G. W	
Judge, J. F., M.DCincinnati	Lace, J. H	
Judd, O. S Spencerville	Laffer, J. M	
*Kaestlen, S. ECleveland	Lammert, C. J	
Kallmeyer, F. G Cincinnati	Lamparter, J. O	
*Kalter, G. WDayton	Lane, E. B	
Kampfmueller, CCincinnati	Landers, G. W	
Kapper, M	Lansing, R. H	
Karb, O. JColumbus	Lash, E. R	
Kauffman, G. BColumbus	Latin, G	
Kauffman, L. BColumbus	Laubach, G. R	•
Kautz, F. ACincinnati	*Lautenschlager, G. C	
Kayser, W	Law, G. F	
Keiper, FCleveland	Lawson, D. J	
Keiper, L Cleveland	*Lehmkuhl, J. B	
Kelley, W. WOttawa	Leitzell, A. D.	
	Lehr, J	
		Olevelanu

Lehr, P Cleveland	McKimmie, J. WClarington
Lehrer, C. A Sandusky	Maddox, WRipley
LeQuesne, A. A. KCleveland	Maddox, W. ERipley
LeQuesne, H J. NCleveland	*Manabach, O. A
Lewis, A. CBucyrus	•
Lewis, A. L Hamden Junction	Markle, S. M. B Ashland
*Lewis, B. G	Marmon, J. YLima
	Marquardt, J. FTiffin
Lewis, E. DJackson	Mason, C. C Columbus
Lickes, R. P Steubenville	Martin, W. J
Liggett, N. EMarysville	*Mattison, T. CBerea
Lindsey, E. H Mansfield	Maxwell, G. FWest Liberty
Lisle, J. D., M.DSpringfield	May, A. FCleveland
Lloyd, C. G	Mayell, ACleveland
Lloyd, J. U	Meggenhofen, EChillicothe
Lloyd, N. ACincinnati	Meiminger, A
Lohman, O. FClevelann	Melsheimer, E. JShelby
Long, J. M	Merrell, G
Long, W. A Steubenville	Metcalt, L. J
Luce, J. DUrbana	Meyer, JLima
Luckey, G. WSouth Charleston	Meyer, WLima
Ludlow, CSpringfield	*Meyer, W. V
Luster, S. WCleveland	Miller, C. MMansfield
Lytle, J. B., M DUnionport	*Miller, G. HCleveland
Lynn, G. A Mineral Ridge	Miller, L. Asteubenville
Lyle, J. BFredericksburg	Miller, P. BGettysburg
McCarter, E. NColumbus	Montanus, P. ESpringfield
McClain, M. H	Moon, D. HBlanchester
McConnell, DGreen Springs	Mooney, M. LCardington
McConney, W. TAtwater Station	*Moore, C. ACambridge
McCormick, J. T	Moore, J. C
McCoy, FCleveland	Morgan, C. HCleveland
McCoy, J. N	Morganthaler, PMassillon
McCulloch, R. SFremont	Morr, T. N
McCullough, A. HMansfield	Morris, W. ENew Holland
McDona'd, S. S New Lexington	Morrison, R. JSteubenville
McDowell, O. HMedina	Moss, J. WNew Richland
McFarland, T. DCanton	Mueller, C. HCincinnati
McGaughey, I. H	Mund, J. FCleveland
McGill, W. WSalineville	Murdock, A. WBellefontaine
McConagle, A. BBrilliant	Murray, F. M., M.DBluffton
McIlvaine, J. JCleveland	Murray, S. WWashington C.H
McKean, C. WSalineville	Myers, D
McKee, W. HAthens	Myers, G. S
McKeown, S. WYoungstown	Nachtrieb, C. J
Mercown, S. W I oungstown	reachines, C. Jwauseon

*Neff, B., M.D	. New Carlisle
Neff, C. H	.New Carlisle
*Nelson, J. W., M.D	Springfield
Nemec, J. A	Cleveland
Newcomb, N. O	Cleveland
Nichols, E. S	
Nichols, J	
Nichols, J. M	
Nipgen, J. A	
Noble, W. W	Berea
Noell, C. H	Van Wert
Norris, E. P	
Norwood, T. F	Cincinnati
Nye, C. N	
Nye, D. H	
Nye, H. L.	
O'Brien. Wm	Cleveland
Ogan, F. W	Temestown
Ogier, W. R	
Ohler, J	Fremont
Olliger, L. P	Wester
*Openhimer, J. H	Centen
Opperman, E	
Orr, W. C	
Otis, J. C	Circinnati
Overbeck, B. H., Jr	Cincinnati
Overholser, S. HWe	
Palmer, J. G	Conneaut
Pape, Josephine	
Park, W. H	.,Elyria
Parsons, G. F	Troy
Parsons, R	
Patterson, J. A	.St. Clairsville
Patterson, J. J	St. C'airsville
Patrick, M	
Payne, C. E	.Port Clinton
Peck, E. D	Toledo
Peck, J. H	
Peters, E. J	Akron
Peters, V. O	
Petersilge, A	Cleveland
Peters, C. C	Zanesville
Patton, J. G	
Peyton, W. T	Manchester

*Pfeiffer, J Pfiffner, F. J. R	Akron
Pfiffner, F. J. R	Delaware
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Phleger, W. F	Sandusky
Piercy, C. G	Wilshire
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Porter, F	Paulding
*Porter, L. R	Cleveland
Potts, J. C	
Pretzinger, R	
Price, A. Q	Swanton
Probeck, G. J	
Prokaska, O. F. Ph. G	
Pruden, D	Dayton
Pugh, G. C	Toronto
Purdy, T. L	Covington
Pyle, S. B	Richmond
Quinlin, W. A	Loramie
Quinn, J. W	Hillsboro
Rabe, H. H	Clyde
Rauchfuss, O	
Rauchkolb, J	Co'umbus
Rave, H	Cleveland
Read, J. A	Wauseon
Read, M. E	Wauseon
Reaser, E. W	Ashland
Reasoner, M.D	Bellaire
Reber, B C	Logan
Reed, C. D	Pomeroy
Reed, E	Portsmouth
Reed, E. M. Ph. G	.Middletown
Reed, I. N	Toledo
Rees, J. NSou	
Reid, H	Lebanon
Reinert, L., Jr	Columbus
Reisinger, L. K	Galion
Rendigs, C. P	Cincinnati
Reul, W. W	\dots Delphos
Reum, H. F	Cincinnati
Rhoads, W. L	Ashland
Rice, B. F	Newton Falls

T	
Richards, J. WColumbus	Schmidt, C Brooklyn Village
Richey, S. COxford	Schneider, A
Richmond, E. AMassillon	Schroeder, G. ACleveland
Richter, S. F., Philo, P. O. Taylorsville	*Schueller, A. WColumbus
Ridgley, W. FSteubenville	Schueller, F. WColumbus
Ridgway, B. GCedarville	
Dilaman C W 11 G	Schueller, EColumbus
Ridgway, CYellow Springs	Schulte, H. J
Ridgway, C. MSpringfield	Schwartz, J. C
*Ritter, L. FColumbus	Scott, A. CColumbus
Roberts, C. ASpringfield	Scott, I. E Apple Creek
Robertson, N. L	Seebohn, A. W
Robinson, E. JLondon	Seltzer, S. TColumbus
Robinson, G. R	Seltzer, D. FAkron
*Robinson, W. LGallipolis	Selzer, E. RCleveland
*Rockwood, C. H North Amherst	Seybert, R. LHillsboro
*Roe, R. BElyria	*Shafer, C. M. Ph. CCanal Fulton
Rogers, N. PKingston	Shallcross, J. HColumbus
Roller, J. LToledo	*Sharpe, J. AAkron
Roller, R. S	Sheekley, C. WCleveland
Rosewater, NCleveland	*Sheets, G. F East Palestine
Ross, JWadsworth	Shellaberger, ELaura
Roth, J. CMarion	Shepherd, J. S Nelsonville
Roudabush, DGoshen	Sherrick, P. FDelphos
Roy, A. HBaltimore, Md	Sherwood, D. WCleveland
Rulmann, R. AMinster	*Sherwood, H. J., JrCleveland
Ruppert, J	Sherwood, LColumbus
Rust, B. SCincinnati	Shotwell, W. D
Ryan, W. J Junction City	Shuesler, J. J Loveland
Sachs, EDayton	Shull, W. FBeaver Dam
Sage, J. R Prairie Depot	Silberling, J. HCleveland
Samsel, H. SBloomville	Simmons, A. HConneaut
Sanford, H. SLima	Simonson, W
Sanford, S., JrLima	Skeggs, C. W., M.DGreen Springs
Sauer, L.WCincinnati	Slocum, E. LLancaster
*Saur, J. CNapoleon	Slosson, F. WCleveland
Savidge, G. AMcCutchenville	Smedley, C. WCincinnati
Schaaf, J. HGallipolis	Smith. C. ASpringfield
Schaefer, M. B	Smith, E. D. FWest Richfield
Schambs, G. MCleveland	Smith, E. T West Richfield
Schellentrager, E. A Cleveland	Smith, L. WByersville
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Schlaubach, E. J	Smith, W. GHillsboro
*Schoenhut, C. HCleveland	Smith, W. H., M.DHoward
Schmidt, ASpringfield	Smith, W. ISpringfield
Suran	

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Smith, W. P., JrTiffin	Sturgis, T. A Dalton
Smithnight, ACleveland	Stutz, F. AAshley
Snow, A. GCleveland	Styer, W. H
Sollmann, LCanton	Sulliger, W. R. HForrest
Sords, T. VCleveland	Sullivan, E. M
Spangenberg, ECincinnati	Sulzbacker, W. FChillicothe
Spalding, C. DGalion	Sykes, E. A
Spayd, C. EToledo	Sweeney, G. W
Spencer, C. ACrestline	Swan, W. SToledo
Spencer, ANew Straiisville	Swingle, J. L
Spengler, J. G	Taggart, P. SNew Lexington
Spenzer, M. H., MissCleveland	Taylor, F. S Wilmington
Spencer, P. I., M.DCleveland	Taylor, J. DRoseville
Spidell, C. E Wilmot	Taylor, J. P Mechanicsburg
Spieth, W. FCleveland	Taylor, U. A Toledo
Spohn, R. CToledo	*Terrell, ENorth Ridgeville
Sponsel, J. G Cincinnati	Thompson, JAuburndale
Sprague, L. CPemberville	Thompson, H. WSidney
Springsteen, W. SCleveland	Thompson, R. AKent
Stahl, H Sidney	Thompson, R. DAkron
*Stahlhuth, E. H. WCincinnati	Thomas, E. SFremont
Stammel, C. A	Thorp, ACincinnati
Starbird, B. F New London	Thuma, J, WShauck's, P. O
Starbird, CNew London	Thurston, AGrand Rapids
Stausmyer, CFremont	Tielke, GCleveland
Stecher, H. WCleveland	Tiffany, H. BClyde
Steele, E. MSteubenville	Titsworth, R. LMt. Victor
Steele, C. HSteubenville	Tobey, C. WTroy
Steele, W. W	Tompkins, J. S Avondale
Steinhoff, AFort Jennings	Trimble, R. CSalem
Stenger, ECincinnati	Troupe, T Springfield
Stewart, FCleveland	Tschaner, G. W Upper Sandusky
Stewart, H. WSteubenville	Tschanen, W Upper Sandusky
Stierle, J. GVersailles	*Tulloss, B. LAkron
Stilson, S. B Gilsonburg	Tupa, F. J
Stoskopf, GCleveland	Turney, L. M
Strobel, J. BIronton	Tuttle, C., M.DBerlin Heights
Strock, E. ECleveland	*Tyson, A. DMiddletown
Strome, J. JMillersburg	Ullman, W. PLoudonville
Strong, R. BJamestown	Urban, J. PCleveland
Strong, S. MCleveland	Valentine, F. ESpringfield
Stuckenholt, WCleveland	Van Stone, T
Stumm, R. C Wilmington	Virden, M. HLa Rue
Sturgis, J. RDalton	Vogel, A. AColumbus
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Vogt, A. L Delaware	White E D I accepted
Voigt, F. H	White, E. BLancaster White, J. BBellaire
- 1	
Von Socia J. H. Waterford	*White, W. E
Von Stein, J. H Upper Sandusky	Whitteker, BCincinnati
Vortkamp, H. FMilford	Widney, H. MZaresville
Voss, G. W	Wildenthaler, G. ASandusky
Wagner, HCincinnati	Willman, E. PSmithville
Wahmhoff, F. S Delphos	Williams, E. R Nevada
Wahmhoff, J. H Delphos	Williams, R. GAlliance
Walding, W. JToledo	Wilson, A. CPiqua
Walker, F. AMilan	Wilson, W. C
Walker, J. FRichmond	Winkleman, F. JCincinnati
Walker, W. P Washingtonville	Winslow, H. G
Wall, C. L Cambridge	Winters, AIronton
Walt, E. CCircleville	Wisterman, IShanes Crossing
Walton, H. CCincinnati	Witschner, M. GTiffin
Warner, AAkron	Wolf, C. P., M.DWilmot
Warner, A. CTiffin	*Wood, ACleveland
Waterman. HRavenna	Wood, J. M., M.DHepburn
Weber, C. LCanton	*Woods, F. MWarren
Webb, F	Woodward, N. GDefiance
Webber, T. JPlymouth	Worley, GCovington
Weden, A. M Cleveland	Worthington, A. FCincinnati
Weichsel, E Cleveland	Wrede, HCincinnati
Weil, JFindlay	Wright, HBelmont
Weiler, J. J Cleveland	Wright, W. CCleveland
Weisbrodt, G Middletown	Wurtzbacher, L. HDelaware
Weller, W. AZanesville	Wyker, J. D Fredericktown
Wells, J. D	Yorston, M. MCincinnati
Wells, W. P Zanesville	Youmans, D. AAkron
Wenning, G. HCincinnati	*Young, F. HLima
Werner, W. MPainesville	Zartman, D Independence, Butler P. O
*Wertz, W. H. HDalton	Zeiser, A. LCincinnati
West, CToledo	Zeller, ADayton
West, J. E., M.D St. Clairsville	Zickes, OCleveland
West, W. KToledo	Zigler, W. AFostoria
West, W. L., M.DMatamoras	Zimmerman, J
West, S. S	Zimmerman, J. RWooster
Weusthoff, O. SDayton	Zimmerman, L. PFremont
Weyer, JCincinnati	Zuenkeler, J. F
Wheeler, A. CLima	Zwerner, J. AColumbus

ROLL OF MEMBERS.

HONORARY MEMBERS

	III MEMBERO.	
Bedford, P. W., Prof., - N	lew York, 1883	3
Maisch, J. M., Prof., - P.	hiladelphia, 188	2
Mohr, Chas., M	Iobile, Ala., 188	7
Remington, J. P., Prot., - P.	hiladelphia, 188	3
Squibb, E. R., M.D., - B	Brooklyn, 1883	2
· ACTI	VE MEMBERS.	
Members are requested to report a	any inaccuracies in these lists, and to notify th	e
Secretary and Treasurer of all change		
Ada, Harding Co.	Warner, A., 188	6
	886 Youmans, D. A., - 188	2
Akron, Summit Co.	Alliance, Stark Co.	,
	886 Cassaday, A. S., 188	4
Allen, S. E., 1	886 Fogle, G. T., 188	T I
Ballenger, C. S.,	886 Williams, R. G., - 188	
Blocker, H. C.,		_
Byrider, J., I	887 Scott, I. E., 188	2
Cadwell, S. D., M.D.,		-
Case, S. H., 1		2
Crites, H., 1	886 Reaser, E. W., 188	
	886 Rhoads, W. L., 188	
Frederick, J. M., I		7
	887 Stutz, F. A., 188	2
Grether, John, 1		_
Hart, D. P., 1	879 Hickok, H. M., 188	2
Himmelman, G. C., 1		J
Inman, C. T.,	1884 Henderson, C. B., - 188	2
Inman, S. C., 1		
Kirkendall, C. F.,	1886 McKee, W. H., 188	-
	Atwater Station, Portage Co.	,
Laffer, J. M.,	1886 McConney, W. T., 188	i.
Peters R I	Auburndale, Lucas Co.	7
Pfeiffer, J.,	1887 Thompson, J., 188	ίτ
riokaska, U. r., Ph. G.,	1887 Bainbridge, Cross Co.	•
Selzer, D. F.,	1883 Beardsley, W. P 188	la.
Sharpe, J. A., 1	1887 Dunn, F. H., 188	
Tulloss, B. L.,		•

1886

Thompson, R. D.,

Barnesville, Belmont Co.

1885

Ely, E. S., . . .

Beaver Dam, Allen Co.		Brooklyn Village, Cuyahoga Co.	
Shull, H. F.,	1886		1880
Bellaire, Belmont Co.		Bucyrus, Crawford Co.	
	1882	Farquhar. W.	1887
	1883	- · · ·	1880
	1882		1879
White, J. B.,	1884		1881
Bellefontaine, Logan Co.	•	Burbank, Wayne Co.	
· -	1880		1883
Case, F. S., Murdock, A. W.,	1880	Burgoon, Sandusky Co.	3
Belleville, Richland O.		- ·	1880
	1884	Byesville, Guernsey Co.	
Potts, J. C.,	1883		1884
	1883	Caldwell.	
Bellevue, Huron Co.		-	1887
Brinker, J. H.,	1885	Cambridge, Guernsey Co.	,
	1885	Downar, J. R., 1	1882
Hutchings, J. H.,	t884	Hawthorne, D. M.,	1884
Belmont, Belmont Co.			1882
	1884	Moore, C. A.,	1887
Berea, Cuyahoga Co.			1884
	1887	Camden, Preble Co.	
	1883	Bohn, J. H.,	1884
Berling Heights, Erie Co.		Canal Fulton, Stark Co.	
	1886	• •	1882
Bettsville, Seneca Co.		Shafer, C. M., Ph. C.,	1887
	1881	Canton, Stark Co.	
Blanchester, Clinton Co.			882
	1886		885
	884		881
Bloomville, Seneca Co.			884
	188 r	Kapper, M., 1	884
Samsel, H. S.,	881		884
Bluffton, Allen Co.		•	188
	:88o	· · · · · · · · · · · · · · · · · · ·	884
Hauenstein, A., I	883	The state of the s	881
Brecksville, Cuyahoga Co.		- ·	884
TNI 1 0 0	886		887
Bridgeport, Belmont Co.			884
	00.		884
T 11: 000 00	884 88.	Cardington, Morrow Co.	_
	884		879
Brilliant, Lawrence Co.		Carey, Wyandot Co.	_
McGonagle, A. B., - 1			879
		Myers, G. S., 1	884

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OHIO STATE PHARMACE	UTICAL ASSOCIATION. 151
Cedarville, Greene Co.	Greve, T. L. A., - 1881
Ridgway, B. G., 1886	Greyer, J., 1881
Cheviot, Hamilton Co.	Griffith, H. H., 1884
Hildreth, N. G., 1884	Groenland, R., 1886
Chicago, Huron Co.	Hale, S. J. (Avondale), - 1884
Sykes, E. A., 1884	Hall, W. J., 1884
Chillicothe, Ross Co.	Harrison, J. M., 1884
Baumgartner, F., - 1880	Hawkins, R. L., - 1884
Davis, J. M., 1880	Heinemann, A., 1886
Howson, A. B., - 1885	Heinemann, O., 1884
Howson, W. H., 1881	Heister, J. P., - 1884
Lansing, R. H., - 1880	Herwig, C. A., - 1880
Meggenhofen, E., - 1881	Hoffman, J., - 1884
Nipgen, J. A., - 1880	Hofling, A. J., 1884
Steel, W. W., 1882	Hollenbeck, E. F., - 1882
Sulzbacker, W. F., - 1884	Hollenbeck, M. W., - 1884
Cincinnati, Hamilton Co.	Hovekamp, J. J., - 1881
Adderley, W. H., - 1884	Irwin, J. L., 1884
Ayers, J. M., M.D., 1879	Jacobi, A., 1884
Ayers, Mary A., - 1882	Jones, J. W., 1880
Bain, A. W., 1882	Judge, J. F., M.D., - 1879
Bain, F. W 1884	Kallmeyer, F. G., - 1886
Bayer, E. W., 1884	Kampfmueller, C., 1884
Betz, O. E., 1884	Kautz, F. A., 1880
Bigler, O., 1880	King, F. H., - 1886
Boehmer, A. L., 1883	Klayer, C. F., 1883
De Lang, A., - 1886	Klayer, L., 1881
Dodge, J. M., 1880	Klein, S., 1884
Egar, Geo., - 1880	Koehnken, H. H., 1880
Eichberg, J. H., - 1884	Koening, J. H., - 1881
Elfers, J. C., - 1883	Koch, H., 1886
Evans, J. S., 1884	Kuerze, R. M., 1881
Fabing, J., 1884	Kylius, G. W., - 1884
Fallon, J. M., 1882	Lammert, C. J., 1882
Feemster, J. H., - 1884	Landers, G. W., - 1884
Feemster, W., 1884	Lloyd. C. G., 1886
Fennel, C. T. P., 1884	Lloyd, J. U., - 1879
Forbes, J. W., 1883	Lloyd, N. Ashley, 1880
Fratz, J. G., 1883	Long, J. M., 1880
Fromme, A., - 1884	Martin, W. J., 1881
Gleick, Wm. M., - 1883	Meininger, A., 1881
Goodman, E., 1880	Merrell, Geo., 1880
Gordon, W. J. M., - 1884	Mueller, C. H., 1884

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Overbeck, B. H., Jr., 1880 Phillips, C. W., 1882 Plath, O. E., 1887 Pohlmeyer, E. A., 1880 Rauchfuss, O., 1880 Rendigs, C. P., 1884 Reum, H. F., 1881 Ruppert, J., 1879 Rust, B. S., 1884 Schulte, H. J., 1883 Schulte, H. J., 1883 Schulte, W. D., 1884 Schulte, W. D., 1885 Smedley, C. W., 1884 Case, L., 1885 Smith, G. W., 1884 Caus, C. W., 1884 Sponsel, J. G., 1884 Culler, F. W., 1884 Culler, F. W., 1885 Curpentry, J. H., 1886 Culler, R., 1886 Culler, F. W., 1887 Culler, F. W., 1888 C	Norwood, T. F., 1884	Clarington, Monroe Co.
Overbeck, B. H., Jr., 1880 Phillips, C. W., 1882 Clarkson, Columbiana Co. Plath, O. E., 1887 Wilson, W. C., 1882 Pohlmeyer, E. A., 1880 Cleveland, Cuyahoga Co. 1883 Rauchfuss, O., 1884 Biddle, H. G., 1883 Reum, H. F., 1881 Benfield, C. W., 1883 Ruppert, J., 1879 Bock, A. W., 1884 Rust, B. S., 1884 Bock, F., 1885 Sauer, L. W., 1884 Bocke, F., 1886 Schneider, A., 1886 Bruce, J., 1886 Schulte, H. J., 1883 Bubna, J. V., 1885 Schulte, W. D., 1886 Bruce, J., 1886 Simonson, W., 1885 Carpenter, J. H., 1885 Smedley, C. W., 1884 Claus, G. T., 1885 Spangenberg, E., 1884 Cobb, R. L., 1886 Spangenberg, E., 1884 Cobb, R. L., 1886 Stablhuth, E. H. W., 1887 <t< td=""><td></td><td>McKimmie, I. W., - 1883</td></t<>		McKimmie, I. W., - 1883
Plath, O. E.,	Overbeck, B. H., Jr., 1880	, , ,
Pohlmeyer, E. A., 1880 Cleveland, Cuyahoga Co. Rauchfuss, O., 1880 Acker, P., 1881 Rendigs, C. P., 1884 Biddle, H. G., 1885 Reum, H. F., 1881 Benfield, C. W., 1885 Ruppert, J., 1879 Bock, A. W., 1886 Rust, B. S., 1884 Bock, F., 1884 Bock, F., 1885 Schneider, A., 1886 Bruce, J., 1886 Carpenter, J. H., 1886 Carpenter, J. H., 1886 Carpenter, J. H., 1886 Carpenter, J. H., 1886 Cobb, R. L., 1886 Bruce, J., 1886 Bruc		
Rauchfuss, O., Rendigs, C. P., Rendigs, C. P., Rendigs, C. P., Reum, H. F., Ruppert, J., Rust, B. S., Rust, B. S., Sauer, L. W., Schneider, A., Schulte, H. J., Schulte, H. J., Shotwell, W. D., Simonson, W., Simon	Plath, O. E., 1887	Wilson, W. C., - 1882
Rauchfuss, O., Rendigs, C. P., Rendigs, C. P., Rendigs, C. P., Reum, H. F., Ruppert, J., Rust, B. S., Rust, B. S., Sauer, L. W., Schneider, A., Schulte, H. J., Schulte, H. J., Shotwell, W. D., Simonson, W., Simon	Pohlmeyer, E. A., 1880	
Rendigs, C. P., 1884 Biddle, H. G., 188; Reum, H. F., 1881 Benfield, C. W., 188; Ruppert, J., 1879 Bock, A. W., 1886; Rust, B. S., 1884 Bock, F., 1886; Sauer, L. W., 1884 Bodebender, W., 1885; Schneider, A., 1886 Bruce, J., 1886; Schulte, H. J., 1883 Bubna, J. V., 1885; Schutte, H. J., 1883 Bubna, J. V., 1885; Schutte, H. J., 1885 Carpenter, J. H., 1885; Carpenter, J. H., 1885; Smedley, C. W., 1884 Case, L., 1884 Caus, G. T., 1885; Spangenberg, E., 1884 Cobb, L. A., 1886; Spangenberg, E., 1884 Cobb, L. A., 1886; Stammel, C. A., 1884; Culler, F. W., 1885; Stammel, C. A., 1886; Culler, F. W., 1885; Tompkins, J. S. (Avondale), 1884 Drecher, L., 1885; Tompkins, J. S. (Avondale), 1884 Drecher, L., 1886; Tompkins, J. S. (Avondale), 1884 Drecher, L., 1886; Tompkins, H. F., 1886; Elliott, S. T., 1886; Wagner, H., 1886; Elliott, S. T., 1886; Wagner, H., 1886; Feil, J., 1886; Feil, J., 1886; Wells, J. D., 1882 Feil, J., 1886; Wells, J. D., 1884 Fenner, G. H., 1886; Weyer, J., 1885; Fischer, E. A., 1886; Whitteker, B., 1885; Fischer, E. A., 1886; Worthington, A. F., 1884 Flandermeyer, H. H., 1886; Worthington, A. F., 1884 Flandermeyer, H. H., 1886; Worthington, A. F., 1884 Flandermeyer, H. H., 1886; Worthington, A. F., 1884 Flood, W. H., 1886; Worthington, A. F., 1884 Flood, W. H., 1886; Worthington, A. F., 1886; Flood, W. H., 1886;	Rauchfuss, O., 1880	Acker, P., 1883
Ruppert, J., Rust, B. S., Rust, B. S., Sauer, L. W., Schneider, A., Schneider, A., Schulte, H. J., Schulte, H. J., Schuell, W. D., Simonson, W., Simonson, W., Smith, G. W., Spangenberg, E., Stammel, C. A., Stammel, C. A., Stammel, C. A., Stammel, C. A., Stamper, E., Stamlhuth, E. H. W., Stenger, E., Stamper, E., Sta	remarks, or	Biddle, H. G., 1883
Rust, B. S., Sauer, L. W., Sauer, L. W., Schneider, A., Schneider, A., Schulte, H. J., Schulte, J. J., Schulte	Reum, H. F., 1881	
Rust, B. S., Sauer, L. W., Sauer, L. W., Schneider, A., Schneider, A., Schulte, H. J., Schulte, J. J., Schulte	Ruppert, J., 1879	Bock, A. W., 1886
Schneider, A.,		
Schneider, A.,		Bodebender, W., 1881
Schulte, H. J., Shotwell, W. D., 1886 Shotwell, W. D., 1886 Simonson, W., 1885 Samedley, C. W., 1884 Smith, G. W., Spangenberg, E., 1884 Sponsel, J. G., Stammel, C. A., 1884 Stammel, C. A., 1884 Stamper, E., 1884 Stamper, E., 1884 Stamper, E., 1885 Stamper, E., 1886 Stamper, E., 1887 Stamper, E., 1884 Stamper, E., 1884 Stamper, E., 1884 Stamper, E., 1884 Stamper, E., 1885 Stamper, E., 1886 Stamper, E.,	Schneider, A., 1886	Bruce, J.,
Simonson, W., 1885 Carpenter, J. H., 1885 Smedley, C. W., 1884 Case, L., 1886 Smith, G. W., 1884 Claus, G. T., 1886 Spangenberg, E., 1884 Cobb, L. A., 1886 Sponsel, J. G., 1884 Cobb, R. L., 1885 Stammel, C. A., 1884 Culler, F. W., 1887 Stahlhuth, E. H. W., 1887 Deutsch, J. W., 1886 Stenger, E., 1884 Drach, G. L., 1886 Tompkins, J. S. (Avondale), 1884 Dreeher, L., 1886 Thorp, A., 1884 Dresky, J. J., 1883 Vortkamp, H. F., 1884 Durstine, F. H., M.D., 1883 Voss, G. W. 1883 Dustine, F. H., M.D., 1886 Wagner, H., 1886 Elliott, S. T., 1886 Welb, F., 1882 Feil, J., 1886 Wells, J. D., 1882 Fenner, G. H., 1887 Weyer, J., 1884 Ferguson, J. R., 1886 Whitteker, B., 1885 Fischer, H. J., 1886	Schulte, H. J., 1883	Bubna, J. V., 1887
Smedley, C. W., 1884 Case, L., 1888 Smith, G. W., 1884 Claus, G. T., 1889 Spangenberg, E., 1884 Cobb, L. A., 1886 Sponsel, J. G., 1884 Cobb, R. L., 1881 Stammel, C. A., 1884 Culler, F. W., 1882 Stammel, C. A., 1884 Culler, F. W., 1883 Stammel, C. A., 1884 Deutsch, J. W., 1884 Stenger, E., 1884 Dreach, G. L., 1885 Tompkins, J. S. (Avondale), 1884 Dresky, J. J., 1886 Tompkins, J. S. (Avondale), 1884 Dresky, J. J., 1883 Vortkamp, H. F., 1884 Durstine, F. H., M.D., 1883 Voss, G. W. 1883 Dustine, C. H., 1886 Walton, H. C., 1886 Elliott, S. T., 1886 Wells, J. D., 1882 Feil, J., 1887 Wells, J. D., 1882 Fenton, C. F., 1887 Weyer, J., 1884 Ferguson, J. R., 1886 Whitteker, B., 1885 Fischer, H. J., 1886	Shotwell, W. D., - 1886	Busch, H. C., M.D., - 1880
Smedley, C. W., 1884 Case, L., 1888 Smith, G. W., 1884 Claus, G. T., 1889 Spangenberg, E., 1884 Cobb, L. A., 1886 Sponsel, J. G., 1884 Cobb, R. L., 1881 Stammel, C. A., 1884 Culler, F. W., 1882 Stammel, C. A., 1884 Culler, F. W., 1883 Stammel, C. A., 1884 Deutsch, J. W., 1884 Stenger, E., 1884 Dreach, G. L., 1885 Tompkins, J. S. (Avondale), 1884 Dresky, J. J., 1886 Tompkins, J. S. (Avondale), 1884 Dresky, J. J., 1883 Vortkamp, H. F., 1884 Durstine, F. H., M.D., 1883 Voss, G. W. 1883 Dustine, C. H., 1886 Walton, H. C., 1886 Elliott, S. T., 1886 Wells, J. D., 1882 Feil, J., 1887 Wells, J. D., 1882 Fenton, C. F., 1887 Weyer, J., 1884 Ferguson, J. R., 1886 Whitteker, B., 1885 Fischer, H. J., 1886		Carpenter, J. H., 1883
Spangenberg, E., - 1884 Cobb, L. A., - 1886 Sponsel, J. G., - 1884 Cobb, R. L., - - 1885 Stammel, C. A., - 1884 Culler, F. W., - 1885 Stahlhuth, E. H. W., 1887 Deutsch, J. W., - 1886 Stenger, E., - 1884 Drach, G. L., - 1885 Tompkins, J. S. (Avondale), 1884 Dreher, L., - 1886 Thorp, A., - 1884 Dresky, J. J., - 1885 Vortkamp, H. F., - 1884 Durstine, F. H., M.D., 1885 Voss, G. W. - 1883 Dustine, C. H., - 1886 Wagner, H., - 1886 Elliott, S. T., - 1886 Walton, H. C., - 1882 Feil, J., - 1887 Webb, F., - 1883 Fenton, C. F., - 1887 Weyer, J., - 1887 Fischer, E. A., - 1888 Weyer, J., - 1885	Smedley, C. W., - 1884	Case, L., 1884
Sponsel, J. G., 1884 Cobb, R. L., 1888 Stammel, C. A., 1884 Culler, F. W., 1887 Stahlhuth, E. H. W., 1887 Deutsch, J. W., 1888 Stenger, E., 1884 Drach, G. L., 1888 Tompkins, J. S. (Avondale), 1884 Dreher, L., 1886 Thorp, A., 1884 Dresky, J. J., 1887 Vortkamp, H. F., 1884 Durstine, F. H., M.D., 1888 Voss, G. W. 1883 Dustin, C. H., 1886 Wagner, H., 1886 Elliott, S. T., 1886 Walton, H. C., 1882 Feil, J., 1886 Webb, F., 1883 Fenner, G. H., 1879 Wells, J. D., 1884 Ferguson, J. R., 1886 Weyer, J., 1887 Fischer, E. A., 1886 Whitteker, B., 1885 Fischer, H. J., 1886 Winslow, H. G., 1884 Flandermeyer, H. D., 1886 Worthington, A. F., 1884 Flood, W. H., 1886	Smith, G. W., 1884	Claus, G. T., 1887
Stammel, C. A., 1884 Culler, F. W., 1887 Stahlhuth, E. H. W., 1887 Deutsch, J. W., 1888 Stenger, E., 1884 Drach, G. L., 1888 Tompkins, J. S. (Avondale), 1884 Dreher, L., 1886 Thorp, A., 1884 Dresky, J. J., 1887 Vortkamp, H. F., 1884 Durstine, F. H., M.D., 1888 Voss, G. W. 1883 Dustin, C. H., 1886 Wagner, H., 1886 Elliott, S. T., 1886 Walton, H. C., 1882 Feil, J., 1882 Webb, F., 1883 Fenner, G. H., 1879 Wells, J. D., 1882 Fenton, C. F., 1883 Weyer, J., 1884 Ferguson, J. R., 1886 Whitteker, B., 1885 Fischer, H. J., 1886 Winslow, H. G., 1884 Flandermeyer, H. D., 1886 Worthington, A. F., 1884 Flood, W. H., 1886		
Stahlhuth, E. H. W., 1887 Deutsch, J. W., 1886 Stenger, E., 1884 Drach, G. L., 1886 Tompkins, J. S. (Avondale), 1884 Dresky, J. J., 1886 Thorp, A., 1884 Dresky, J. J., 1885 Vortkamp, H. F., 1884 Dresky, J. J., 1885 Voss, G. W. 1883 Dustin, C. H., 1885 Wagner, H., 1886 Elliott, S. T., 1886 Wagner, H. C., 1882 Feil, J., 1882 Feil, J., 1884 Fenner, G. H., 1886 Wells, J. D., 1883 Fenner, G. H., 1886 Wells, J. D., 1884 Ferguson, J. R., 1886 Weyer, J., 1886 Ferguson, J. R., 1887 Weyer, J., 1886 Fischer, E. A., 1886 Winkleman, F. J., 1886 Fischer, H. J., 1886 Winkleman, F. J., 1886 Flandermeyer, H. D., 1886 Worthington, A. F., 1884 Flandermeyer, H. H., 1886 Worthington, A. F., 1884 Flood, W. H., 1886 Worthington, A. F., 1884 Flood, W. H., 1886 Worthington, A. F., 1886 Flood, W. H., 1886		Cobb, R. L., 1883
Stahlhuth, E. H. W., 1887 Deutsch, J. W., 1886 Stenger, E., 1884 Drach, G. L., 1886 Tompkins, J. S. (Avondale), 1884 Dresky, J. J., 1886 Thorp, A., 1884 Dresky, J. J., 1885 Vortkamp, H. F., 1884 Dresky, J. J., 1885 Voss, G. W. 1883 Dustin, C. H., 1885 Wagner, H., 1886 Elliott, S. T., 1886 Wagner, H. C., 1882 Feil, J., 1882 Feil, J., 1884 Fenner, G. H., 1886 Wells, J. D., 1883 Fenner, G. H., 1886 Wells, J. D., 1884 Ferguson, J. R., 1886 Weyer, J., 1886 Ferguson, J. R., 1887 Weyer, J., 1886 Fischer, E. A., 1886 Winkleman, F. J., 1886 Fischer, H. J., 1886 Winkleman, F. J., 1886 Flandermeyer, H. D., 1886 Worthington, A. F., 1884 Flandermeyer, H. H., 1886 Worthington, A. F., 1884 Flood, W. H., 1886 Worthington, A. F., 1884 Flood, W. H., 1886 Worthington, A. F., 1886 Flood, W. H., 1886		Culler, F. W., 1887
Tompkins, J. S. (Avondale), 1884 Dreher, L., 1886 Thorp, A., 1884 Dresky, J. J., 1885 Vortkamp, H. F., 1884 Durstine, F. H., M.D., 1885 Voss, G. W. 1883 Dustin, C. H., 1886 Wagner, H., 1886 Elliott, S. T., 1886 Walton, H. C., 1882 Feil, J., 1882 Webb, F., 1883 Fenner, G. H., 1879 Wells, J. D., 1884 Fenton, C. F., 1885 Wenning, G. H., 1884 Ferguson, J. R., 1886 Weyer, J., 1887 Fischer, E. A., 1886 Whitteker, B., 1888 Fischer, H. J., 1886 Winkleman, F. J., 1884 Flandermeyer, H. D., 1886 Winslow, H. G., 1884 Flandermeyer, H. D., 1886 Worthington, A. F., 1884 Flood, W. H., 1886	Stahlhuth, E. H. W., - 1887	Deutsch, J. W., 1884
Tompkins, J. S. (Avondale), 1884 Dreher, L., 1886 Thorp, A., 1884 Dresky, J. J., 1885 Vortkamp, H. F., 1884 Durstine, F. H., M.D., 1885 Voss, G. W. 1883 Dustin, C. H., 1886 Wagner, H., 1886 Elliott, S. T., 1886 Walton, H. C., 1882 Feil, J., 1882 Webb, F., 1883 Fenner, G. H., 1879 Wells, J. D., 1884 Fenton, C. F., 1885 Wenning, G. H., 1884 Ferguson, J. R., 1886 Weyer, J., 1887 Fischer, E. A., 1886 Whitteker, B., 1888 Fischer, H. J., 1886 Winkleman, F. J., 1884 Flandermeyer, H. D., 1886 Winslow, H. G., 1884 Flandermeyer, H. D., 1886 Worthington, A. F., 1884 Flood, W. H., 1886		Drach, G. L., - 1887
Thorp, A.,	Tompkins, J. S. (Avondale), 1884	Dreher, L., 1880
Vortkamp, H. F., - 1884 Durstine, F. H., M.D., - 1885 Voss, G. W 1883 Dustin, C. H., - 1886 Wagner, H., - 1886 Elliott, S. T., - 1886 Walton, H. C., - 1882 Feil, J., - 1882 Webb, F., - 1883 Fenner, G. H., - 1879 Wells, J. D., - 1882 Fenton, C. F., - 1885 Wenning, G. H., - 1884 Ferguson, J. R., - 1886 Weyer, J., - 1887 Fischer, E. A., - 1888 Whitteker, B., - 1885 Fischer, H. J., - 1886 Winkleman, F. J., - 1884 Flandermeyer, H. D., - 1886 Worthington, A. F., - 1884 Flood, W. H., - 1886 Worthington, A. F., - 1884 Flood, W. H., - 1886 Worthington, A. F., - 1884 Flood, W. H., - 1886	Thorp. A., 1884	
Voss, G. W. - 1883 Dustin, C. H., - 1886 Wagner, H., - 1886 Elliott, S. T., - - 1888 Walton, H. C., - 1882 Feil, J., - - 1882 Webb, F., - - 1883 Fenner, G. H., - - 1879 Wells, J. D., - - 1884 Ferguson, J. R., - - 1882 Wenning, G. H., - - 1884 Ferguson, J. R., - - 1882 Weyer, J., - - 1885 Fischer, E. A., - - 1882 Whitteker, B., - - 1885 Fischer, H. J., - - 1882 Winslow, H. G., - - 1884 Flandermeyer, H. H., - - 1886 Worthington, A. F., - 1884 Flood, W. H., - - 1886	Vortkamp, H. F., 1884	Durstine, F. H., M.D., - 1883
Walton, H. C., 1882 Feil, J., 1888 Webb, F., 1883 Fenner, G. H., 1879 Wells, J. D., 1882 Fenton, C. F., 1888 Wenning, G. H., 1884 Ferguson, J. R., 1888 Weyer, J., 1879 Fischer, E. A., 1886 Whitteker, B., 1885 Fischer, H. J., 1889 Winkleman, F. J., 1884 Flandermeyer, H. D., 1886 Winslow, H. G., 1884 Flandermeyer, H. H., 1886 Worthington, A. F., 1884 Flood, W. H., 1886	Voss, G. W 1883	Dustin, C. H., 1886
Webb, F., - - 1883 Fenner, G. H., - - 1879 Wells, J. D., - - 1882 Fenton, C. F., - - 1888 Wenning, G. H., - - 1884 Ferguson, J. R., - - 1889 Weyer, J., - - 1879 Fischer, E. A., - - 1886 Whitteker, B., - - 1885 Fischer, H. J., - - 1886 Winkleman, F. J., - - 1884 Flandermeyer, H. D., - 1886 Worthington, A. F., - - 1884 Flood, W. H., - - 1886		Elliott, S. T., 1885
Webb, F., - 1883 Fenner, G. H., - 1879 Wells, J. D., - - 1882 Fenton, C. F., - 1888 Wenning, G. H., - - 1884 Ferguson, J. R., - - 1888 Weyer, J., - - 1879 Fischer, E. A., - - 1886 Whitteker, B., - - 1885 Fischer, H. J., - - 1886 Winkleman, F. J., - - 1884 Flandermeyer, H. D., - 1886 Worthington, A. F., - 1884 Flood, W. H., - - 1886	Walton, H. C., - 1882	Feil, J., - 1884
Wenning, G. H., - 1884 Ferguson, J. R., - 1885 Weyer, J., - 1879 Fischer, E. A., - 1886 Whitteker, B., - 1885 Fischer, H. J., - 1886 Winkleman, F. J., - 1884 Flandermeyer, H. D., - 1886 Winslow, H. G., - 1884 Flandermeyer, H. H., - 1886 Worthington, A. F., - 1884 Flood, W. H., - 1886	Webb, F., 1883	Fenner, G. H., - 1879
Wenning, G. H., - 1884 Ferguson, J. R., - 1885 Weyer, J., - 1879 Fischer, E. A., - 1886 Whitteker, B., - 1885 Fischer, H. J., - 1886 Winkleman, F. J., - 1884 Flandermeyer, H. D., - 1886 Winslow, H. G., - 1884 Flandermeyer, H. H., - 1886 Worthington, A. F., - 1884 Flood, W. H., - 1886		Fenton, C. F., - 1887
Whitteker, B.,	Wenning, G. H., 1884	Ferguson, J. R., 1887
Winkleman, F. J., - 1884 Flandermeyer, H. D., - 1886 Winslow, H. G., - 1884 Flandermeyer, H. H., - 1886 Worthington, A. F., - 1884 Flood, W. H., - 1886		· · · · · · · · · · · · · · · · · · ·
Worthington, A. F., - 1884 Flood, W. H., 1886		
Worthington, A. F., - 1884 Flood, W. H., 1886	Winkleman, F. J., 1884	
Wrede, H., 1884 Flood, W. H., 1886 Wrede, H., 1881 Forrest, J. T., 1886	Winslow, H. G., 1884	
Wrede, H., 1881 Forrest, J. T., 1880	Worthington, A. F., 1884	· · · · · · · · · · · · · · · · · · ·
	Wrede, H., 1881	
Yorston, M. M., - 1882 Fortlage, J. H., - 1889	Yorston, M. M., 1882	3
Zeiser, A. L., - 1884 Gaylord, H. C., - 1886	Zeiser, A. L., 1884	
	Zuenkeler, J. F., - 1884	
Circleville, Pickaway Co. Gegelein, F. L., - 1883	Circleville, Pickaway Co.	
	Fickardt, F. L., 1885	5 • • •
Walt, E. C., - 1884 George, R. H., - 1889	Walt, E. C., 1884	George, R. H., 1887

OHIO STATE PHARMACEUTICAL ASSOCIATION. 153			
Gerstacker, M., 1882	O'Brien, Wm., 1884		
Gleim, J. C., - 1887			
Glines, G. W., 1880			
Godman, C. A., - 1883	Peck. J. H 1881		
Grosse, W. F., 1884			
Haag, G. D., - 1884	•		
Haber, L. A., 1881			
Hall, L. B., 1880			
Hart, W. T., 1882			
Hartness, W. H.,	Robinson, G. R., - 1885		
Heller, M. M., 1880			
Hechler, G. L., 1880 Heller, M. M., 1880 Hoehn, J., 1883	Schellentrager, E. A., - 1880		
Honecker, A., 1881	Schoenhut, C. H., 1887		
Hønecker, J. J., - 1884	Schroeder, G. A., 1884		
Honecker, J. J., - 1884 Hopp, L. C., - 1879	Selzer, E. R., 1885		
Horst, J. H., 1885	Sheekley, C. W., 1881		
Hull, H. M., 1884	Sherwood, D. W., 1885		
Hull, H. M., 1884 Kaestlen, S. E., 1887	Sherwood, H. J., Jr., 1887		
Keiper, r., 1884	Silberling, J. H.,		
Keiper, L., 1880			
Kieffer, G., 1880	Smithnight, A., 1880		
Kuhlmeier, H., 1883			
Lace, J. H., - 1883			
Lane, E. B., 1880			
Lehr, John, 1886	Spenzer, P. I., M.D., - 1880		
Lehr, P., 1880 LeQuesne, H. J. N., 1884			
LeQuesne, H. J. N., - 1884	Springsteen, W. S., - 1885		
LeQuesne, A. A. K., - 1882	Stecher, H. W., 1883		
Lohmann, O. F., - 1880			
Luster, S. W., - · · 1883			
McCoy, F., 1882			
McIlvaine, J. J., 1882	g, ,		
May, A. F., 1880			
Mayell, A., 1879			
Metcalf, L. J., - 1883			
Meyer, W. V., - 1887 Miller, G. H., - 1887			
	Weden, A. M., - 1884		
Morgan, C. H., - 1880			
Mund, J. F., 1883			
Myers, Daniel, 1880			
Nemec, J. A., 1883			
Newcomb, N. O., - 1884	Wright, W. C., - 1882		
Norris, E. P., 1883	Zickes, O., 1886		

Cleves, Hamilton Co.	Rauschkolb, J., 1881
Grossman, F. A., 1884	Reinert, L. Jr., 1884
Clyde, Şandusky Co.	Richards, J. W., - 1886
Rabe, H. H., - 1883	Ritter, L. F., - 1887
Rabe, H. H., - 1883 Tiffany, H. B., - 1883	Schueller, A. W., 1887
Coalton, Jackson Co.	Schueller, E., - 1879
Friedland, J. F., 1884	Schueller, E., - 1879 Schueller, F. W., - 1880 Scott, A. C., - 1880
College Corner, Butler Co.	
Cokefair, C. B., 1884	Seltzer, S. T., 1885
Huston, J. C., - 1884	Shallcross, J.H., 1884 Sherwood, L., 1879
Columbiana, Columbiana Co.	Sherwood, L., 1879
Ink, C. E., 1884	Vogel, A. A., 1879
Columbus, Franklin Co.	Zwerner, J. A., 1880
Ackerman, J. N., - 1879	Columbus Grove, Putnam Co.
Ackerman, J. N., - 1879 Bauer, F. A., - 1883	Hauck, T., 1884
Benner, C. C., - 1882	Conneaut, Ashtabula Co.
	Guthrie, J. H., 1882
Berger, J., Jr., 1882 Braun, H., 1879	Guthrie, J. H., 1882 Kneeland, C. A., 1883
Brodbeck, W. T., 1883	Palmer, J. G., 1883
Brown, W. C., - 1886	Simons, A. H., 1885
Bruck, P. H., 1879	Corning, Perry Co.
Byrne, John, - 1884	Foreaker, J. W., 1883
Cook, H. C., 1884	Covington, Miami Co.
Cook, J. R., 1879	
Cornell, C. R., 1879	Purdy, T. L.,
Edwards, E. B., - 1884	Crestline, Crawford Co.
Gibson, C. J., 1883	Spencer, C. A., - 1883
Harmon, M. M., - 1886	Dalton, Wayne Co.
Herbst, F. W., 1879	Sturgis, J. R., 1882
Hoffman, O. L., 1883	Sturgis, T. A., 1883
Hollinger, Thos., - 1883	Wertz, W. H. H., 1887
Holman, H. N., 1883	Dayton, Montgomery Co.
Huston, Chas., 1879	Abbey, J., 1882
TT 1 0 T	Abbey, W. W., 1882
Karb, G. J., - 1882 Kauffman, G. B., - 1879	Bonner, C. D., - 1887
Kolb, A., 1882	Burkitt, J. L., 1880
McCarter, E. N., - 1879	Burkhardt, M. A., 1886
Mandaback, P. A., - 1887	Carnell, H. D., 1880
*Mason, C. C., 1884	Daugherty, J. U., - 1880
Nichols, J., 1880	Dietz, J. C., 1880
Nichols, J. M., - 1881	Dixon, G. M., - 1880
Ogier, W. R., 1879	Godfrey, C. P., 1885
Orr, W. C., 1883	Hebner, A., 1880
•	

^{*}Removed to Buchtel, O.

Hoover, Z. T.,	1880	East Toledo, Lucas Co.
Hyers, W. H.,		Bach, W. J., 1880
	1887	Cook, H. D
Kalter, G. W.,	1887	Cook, H. D., 1882 Cook, W. S., 1881
Kutchbauch, J. F.,		Hamlin, R. F., 1881
Kurfurst, H. F.,	1887	Elyria, Lorain Co.
	1880	Eady, H. J., 1882
Lautenschlager, G. C.,	1880	Eady, H. J., - 1882 Hill, F. P., - 1883
Pretzinger, R.,	1880	Park, W. H., 1883
Pruden, D.,	1880	Roe, R. B., 1887
· · · · ·	1881	Fayetteville, Brown Co.
Sachs, E.,	1880	Fitzpatrick, S. J., 1882
Spengler, J. G.,	1882	Findlay, Hancock Co.
Weusthoff, O. S.,	1879	
	1880	Black, W. R., 1881 Chadwick, W. M., 1883
Defiance, Defiance Co.		Haven, W. H., 1880
	1881	Huber, J. M., - 1881
Colby, W. D., Woodward, N. G.,	1883	Huber, J. M., - 1881 Weil, J 1882
Delaware, Delaware Co.		Forest, Hardin Co.
Aigin, S. C.,	1885	Dull, L. E., 1885
Carter, G. H.,	1880	Sulliger, W. R. H., - 1880
Pfiffner, F. J. R.,	1880	Fort Jennings, Putnam Co.
Vogt, A. L.,	1886	Steinhoff, A., 1882
Wurtzbacher, L. H.,	1886	Fostoria, Seneca Co.
Delhi, Hamilton Co.		
	1882	Eshelman, L. J., 1884 Zigler, W. A., 1884
Delphos, Allen Co.		Fredericksburg, Wayne Co.
Evans, H. W.,	1881	Lytle, J. B., 1883
Evans, H. W., Evans, J. W.,	1882	Fredericktown, Knox Co.
Reul, W. W.,	1881	Hosach, C., 1882
Sherrick, P. F.,	1886	Wyker, J. D., 1883
Sherrick, P. F., Wahmhoff, J. H.,	1880	Fremont, Sandusky Co.
Wahmhoff, F. S.,	1882	Grund, H. C., - 1880
Doylestown, Wayne Co.		McCulloch. R. S., - 1881
Hochstetler, J. C.,	1885	Ohler, J., 1883
Dresden, Muskingum Co.	-	Ohler, J., 1883 Stausmyer, C., - 1883
Hornung, J.,	1882	Thomas, E. S., - 1880
East Palestine, Columbiana Co.		Zimmerman, L. P., - 1880
Frazer, H. J.,	1882	Galion, Crawford Co.
Greenamyer, E., M.D.,	1884	Hackedorn, M. L., - 1880
Sheets, G. F.,		McClain, M. H., - 1880
East Springfield, Jefferson Co.		Reisinger, L. K., - 1881
Baird, R.,		Spaulding, C. D., - 1883

Gallipolis, Gallis Co.		Hepburn, Hardin Co.
Grayum, C. W.,	1887	Weod, J. M., M.D., - 1883
Keer, C. D.,	1882	Hillsboro, Highland Co.
Robinson, W. L.,	1887	Davis, W. H. C., - 1882
Schaaf, J. H.,	1882	Hilton, L. R., - 1883
Georgetown, Brown Co.		Quinn, J. W., 1880
Currey, J. N.,	1886	Seybert, R. L., 1880
Germantown, Montgomery Co.		Smith, W. G., 1880
Hiidabolt, C. W.,	1887	Holgate, Henry Co.
Gettysburg, Darke Co.		Turney, L. M., 1881
Miller, P. B.,	1884	Voigt, F. H., 1881
Girard, Trumbull Co.		Holmesville, Holmes Co.
Lewis, B. G.,	1887	Hoy, B. F., - 1884
Gibsonburg, Sandusky Co.	-	Howard, Knox Co.
Stilson, S. B.,	1881	Smith, W. H., M.D., - 1883
Goshen, Clermont Co.		Hubbard, Trumbuli Co.
Roudabush, D.,	1882	Bonnell, D. W., - 1884
Grand Rapids, Wood Co.		Cramer, S. P., 1884
Gardner, A. J., M.D.,	1881	McGaughey, I. H.,
Thurston, A.,	1885	Hudson, Summit Co.
Granville, Licking Co.	•	Bentley, E. S., 1882
Bryant, C. W.,	1884	Iberia, Morrow Co.
Greenfield, Highland Co.	•	Crane, E. J., 1884
Cleaveland, C. H.,	1884	Independence, Richland Co. (Butler P. O.)
Greensburg, Trumbull Co.	•	Zartman, D., - 1884
Crane, R. W.,	1884	Ironton, Lawrence Co.
Green Springs, Seneca Co.		Davies, T. C., 1883
McConnell, D.,	1884	Strobel, J. B., 1884
Skeggs, C. W., M.D.,	1884	Winters, A., 1881
Greenville, Darke Co.		Jackson, Jackson Co.
Kipp, W.,	1881	Hale, W. F., M.D., - 1884
Groveport, Franklin Co.		Lewis, E. D., - 1884
Eyman, L. E.,	1885	Jamestown, Greene Co.
Hamden Junction, Vinton Co.	3	Ogan, F. W., - 1882
·	1882	Strong, R. B., 1880
Hamilton, Butler Co.		Jefferson, Ashtabula Co.
	1883	Hawley, A. K., 1883
	1887	Jeffersonville, Fayette, Co.
Schwartz, J. C.,	1880	Davis, C. W., 1887
Hamar, Washington Co.		Junction City, Perry Co.
	1884	Ryan, W. J., 1882
Schlaubach, E. J.,	1885	Kent, Portage Co.
Hayesville, Ashland Co.	- 505	Thompson, R. A., - 1883
Brant, E. D.	1885	- 1003
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OHIO STATE PHARMACEUTICAL ASSOCIATION.			
Kenton, Hardin Co.	Lorain, Lorain Co.		
Dean, W. D., - 1885	Jewitt, W. A., 1884		
McCoy, J. N., 1879	Loramie, Shelby Co.		
Kilbourn, Delaware Co.	Quinlin, W. H., 1884		
Knapp, Delia A., 1885	London, Madison Co.		
Kingston, Ross Co.	Atchison, J. R., - 1884		
Rogers, N. P., 1884	Robinson, E. J., 1880		
Lancaster, Fairfield Co.	Loudonville, Ashland Co.		
Beck, J. W., 1882	Ullman, W. P., 1881		
Bellermann, J. H., - 1881	Louisville, Stark Co.		
Slocum, E. L., 1882	Schilling, J. P., 1885		
White, E. B., 1882	Loveland, Clermont Co.		
La Rue, Marion Co.	Shuesler, J. J., 1882		
Campbell, W. J., 1881 Virden, M. H., 1883			
Virden, M. H., - 1883	Savidge, G. D., 1885		
Laura, Miami Co.	McConnellsville, Morgan Co.		
Shellaberger, E., - 1886	Alexander, E. V., 1882		
Lebanon, Warren Co.	Madisonville, Hamilton Co.		
Reid, H., 1881	Klein, D., 1882		
Leetonia, Columbiana Co.	Manchester, Allen Co.		
Harper, C. B., 1887	Peyton, W. T., 1881		
Ink, H. H., 1886	Mansfield, Richland Co.		
Liberty Center, Henry Co.	Finfrock, M. V. B., - 1882		
Foncanon, G. U., - 1883	Lindsey, E. H., - 1883		
Lima, Allen Co.	McCullough, A. H., - 1885		
Barrere, G. W., 1884	Miller, C. M., 1881		
Brenner, C. E., - 1886	Marietta, Washington Co.		
Gilbert, A. W., 1885	Allen, E. H., 1881		
Harley, J. P., 1887	Bukey, J. S., 1884		
Marmon, J. Y., - 1882	Gaitree, W. B., - 1884		
Meyer, J., 1884	Richards, E. T., 1884		
Meyer, Wm., 1884	Styer, W. H., 1880		
Sanford, H. S., 1882	Marion, Marion Co.		
Sanford, S., Jr., 1882	Denison, L., 1885		
Wheeler, A. F., 1884	*Flocken, L. H., 1886		
Young, F. H., - 1887	Hinds, J. W., 1884		
Lockland, Hamilton Co.	Hoberman, H. C., - 1883		
Gilbert, H. A., - 1884	Roth, J. C., 1884		
Logan, Hocking Co.	Sweney, G. W., - 1885		
Bort, L. O., 1887	Marysville, Union Co.		
Case, F. S., - 1880			
Harrington, F., - 1879	Field, J. W., 1880		
Reber, B. C., 1884	Liggett, N. E., - 1881		
•	== :		

*Correspondent for Marion Co.

W	
Metamoras, Fulton Co. West, W. L., M.D., 1885	Mt. Sterling, Madison Co.
Massillon, Stark Co.	Mt. Vernon, Knox Co.
Baltzley, Z. T., - 1882	Baker, G. R., - 1882
Eisenhour, C. L., - 1887	Baker, P. A., 1883
Johnson, J. D., - 1882	Mt. Victory, Hardin Co.
Kirchhofer, P. P., 1882	Titsworth, R. L., 1884
Morganthaler, P., - 1883	Napoleon, Henry Co
Richmond, E. A., - 1885	Saur, J. C., 1887
Mechanicsburgh, Champaign Co. Taylor, J. P.,	Navarre, Stark Co.
	Grossklaus, J. F., 1882
Medina, Medina Co.	Nelsonville, Athens Co.
Albro, W. H., - 1881	Hickman, W. G., 1882
McDowell, O. H., 1883	Shepherd, J. S., 1883
Mendon, Mercer Co.	Nevada, Wyandot Co.
Bevan, J., 1882	Belford, Dr. E. A., 1886
Miamisburg, Montgomery Co.	Goodbread, J. N., 1881
Bohn, M. G., - 1880	Williams, E. R., 1883
Middletown, Butler Co.	Newark, Licking Co.
Johnson, C. B., - 1884	Collins, F. A, 1880
Johnson, W H., 1886	Jones, W. C., 1881
Reed, E. M. Ph. C., 1880	Patton, J. G., 1885
Tyson, A. D., 1887	New Bremen, Auglaize Co.
Weistbrodt, G., - 1884	Hoffman, J. L., 1881
Middle Point, Van Wert Co.	New Burlington, Clinton Co.
White, W. E., - 1887	Collett, O. F., 1884
Milan, Erie Co.	New Carlisle, Clark Co.
Walker, F. A., 1885	Neff, C. H., 1882
Milford, Clermont Co.	Neff, B., M.D., - 1887
Vortkamp, H. F., - 1884	New Concord, Muskingum Co.
Millersburg, Holmes Co.	Johnson, C. S., - 1882
Strome, J. J., - 1882	
	New Holland, Pickaway Co.
Mineral, Athens Co. Coleman, J. C., - 1885	Morris, W. E., 1884
-	New Lexington. Perry Co. (Highland P.O.)
Mineral Ridge, Trumbull Co.	Bonar, R. S., 1884
Lynn, G. A., - 1886	New Lexington, Perry Co.
Minerva, Stark Co.	McDonald, S. S., 1886
Hoopes, W. W., - 1884	Taggart, P. S., 1885
Minster, Auglaize Co.	New Lisbon, Columbiana Co.
Rulmann, R. A., - 1884	Brown, F. A., 1883 Deemer, C. H., 1883
Morristown, Belmont Co.	
Fisher, J. V., 1882	New London, Huron Co.
Mt. Gilead, Morrow Co.	Starbird, B. F., 1884
Swingle, I. L., - 1880	Starbird, C., 1884

New Richmond, Clermont Co.	Portsmouth, Scioto Co.
Fleher, J. C., 1881	Amann, C. E., Sr., 1881
Moss, J. W., 1882	Amann, C. E., Jr., - 1881
New Straitsville, Perry Co.	Amann, F., 1881
Spencer, H., 1884	Reed, E., 1881
Newton Falls, Trumbull Co.	Port Clinton, Ottawa Co.
Carlisle, F. L., 1884	Payne, C. E., 1886
Rice, B. F., 1883	Port Washington, Tuscarawas Co.
New Waterford, Columbiana Co.	Cornet, L. A., - 1882
Vollnogle, P. F., 1884	Cornet, G. A., - 1887
North Amherst, Lorain Co.	Powhatan Belmont Co.
Rockwood, C. H., 1887	Beane, J. H., 1887
North Ridgeville, Lorain Co.	Prairie Depot, Wood Co.
Terrell, E., 1888	Sage, J. R., 1884
Norwalk, Huron Co.	Prospect, Marion Co.
Benedict, D. D., M.D., - 1880	Cook, F. M., 1886
Patrick, M., 1883	Ravenna, Portage Co.
Orrville, Wayne Co.	Waterman, H., 1884
Blankenhorn, H., 1884	Richmond, Jefferson Co.
Ottawa, Putman Co.	
Graham, A., Jr., 1886	Pyle, S. B., - 1882 Walker, J. F., - 1884
Kelley, W. W., - : 1881	Republic, Seneca Co.
Oxford, Butler Co.	Charles, X. F 1886
Gillard, W. H., 1884	Charles, X. F., - 1886 Deutler, S. S., - 1886
Richey, S. C., 1884	Richwood, Union Co.
Painesville, Lake Co.	Conkright, A. B., - 1886
Werner, W. M., 1886	Hill, C. E., 1884
Paulding, Paulding Co.	Ripley, Brown Co.
Porter, F., 1886	Black, C. T., 1885
Pemberville, Wood Co.	Maddox, W. E., - 1884
Sprague, L. C., 1882	Maddox, W., 1884
Perrysburg, Wood Co.	Rocky Ridge, Ottawa Co.
Champney, A. R., 1881	Barringer, D., M.D., 1885
Champney, W. R., 1881	Roseville, Muskingum Co.
(Philo P. O.) Taylorsville, Muskingum Co.	Taylor, J. D., - 1882
Richter, S. F., 1882	Rushsylvania, Logan Co.
Piqua, Miami Co.	Doran, I. A., - 1886
Wilson, A. C., 1880	St. Clairsville, Bellmont Co.
Plymouth, Richland Co.	
Webber, T. J., 1885	Hoge, J. B., - 188 ₂ Patterson, J. A., - 18882
Pomeroy, Meigs Co.	Patterson, J. J., 1882
Reed, C. D 1882	West, J. E., M.D., 1882
Seebohm, A. W., 1881	
Seebohm, A. W., 1881	

St. Mary's, Auglaize Co.		Stahl, H., 18	883
	1886	• •	88 t
St. Paris, Champaign Co.		Smithville, Wayne Co.	
	1884		884
Salem, Columbiana Co.	1004	Somerset, Perry Co.	504
	1883		882
	1885	South Charleston, Clarke Co.	
	1883		882
	1880	,, ,.,	884
Trimble, R. P.,	1884	Rees, J. N.,	886
Salineville, Columbiana Co.		Spencerville, Allen Co.	500
	1883		885
	1884	Judd, O. S., 18	882
Sandusky, Erie Co.	•	Springfield, Clarke Co-	
	1884		882
1111010,,	1884		886
2.00.,,	1885		880
	1885	Casper, T. J., M.D., 18	879
Hauser, J. C.,	1881	Coblentz, F. H., 18	• •
	1884	-	887
	1881	Coblentz, V., 12	882
	1884	Goebel, C. W.,	886
	1885	Heister, U. S., 12	887
	1885	Holloway, W. G.,	887
Wildenthaler, G. A.,	1884	Kuqua, S. J., 18	386
Sardinia, Brown Co.		Lisle, J. D., M.D.,	884
Glenn, A. H.,	1882	Ludlow, C., 18	880
Seville, Medina Co.		Montanus, P. E., 18	882
Boise, J. C.,	887	Nelson, J. W., M.D., 18	887
Leitzell, A. D.,	1885	Ridgway, C. M.,	886
Shane's Cressing, Mercer Co.		Roberts, C. A., 12	882
Wisterman, I.,	1885		886
Shauck's P. O., Morrow Co.		Smith, C. A., 18	38o
Thuma, J. W.,	1884		882
Shelby, Richland Co.		Troupe, Theo., 1	
	1883	Valentine, F. E., 18	886
Peters, V. O.,	1885	Steubenville, Jefferson Co.	
Shiloh, Richland Co.		Beall, W. M 13	•
Fenner, J. C.,	1883		884
Shreve, Wayne Co.		Burgoyne, W. R 1	
Cunningham, J. C.,	1884	, , , ,	882
Sidney, Shelby Co.		Carnahan, W. G., 1	•
Amann, C.,	1881	,	884
Amann, F. O.,	1884	Foster, A. M., 12	884

OHIO STATE PHARMACEUTICAL ASSOCIATION. 161				1 6 1		
Johnson, J. M.,			1884	Peck, E. D.,	- I	88 ı
Johnson, T.,	•		1882	Roller, J. L.,		88 I
Johnson, W. R.,		-	1887	Reed, I. N.,	- 1	88 I
Kells, H. B.,			1884	Schaefer, M. B.,	I	88 I
Lickes, R. P.,		-	1884	Spayd, C. E.,	- 1	188
Long, W. A.,	-	_	1882	Spohn, R. C.,	I,	188
Miller, L. A.,	•	-	1884	Swan, W. S.,	- I	88 I
Morrison, R. J.,	-	-	1884	Taylor, U. B.,	I	883
Ridgley, W. F.,	•	-	1884	Vanstone, T.,	- 1	88 ı
Steele, C. H.,			1884	Walding, W. J.,	r	188
Steele, E. M.,	-		1884	West, C.,	- 1	88 i
Stewart, H. W.,	-	-	1884	West, W. K.,	1	188
Summerfield	. Noble	Co.		Toronto, Jefferson Co.		
	•		1882	Pugh, G. C.,	- 18	884
Swanton,	Fulton C	0.		Troy, Miami Co.		
	•		1886	Parsons, G. F.,	18	88o
Sylvania,	Lucas Co	١.		Tobey, C. W.,	- 18	879
Hank, T. B., M.D.,		-	1884	Uhrichsville, Tuscarawas Co		
Tiffin, Se			•	Francis, H. S.,	T.	8 82
Fleck, J. J.,		-	1880	Unionport, Jefferson Co.		
Hubbard, E. B.,		-	1884	Dunlap, G. G.,	- 1	884
Marquardt, J. F.,	•		1881	Lyle, J. P., M.D., -	1	88 6
Smith, W. P., Jr.,	-		1883	Upper Sandusky, Wyandot C	o.	
	•	•	1885	Altenberger, P. J.,	1	887
Witschner, M. G.,		-	1884	Berg, F.,		88o
Tiro, Cra				Tschanen, G. W.,		882
Jeffrey, D. G.,	•			Tschanen, W.,		883
Jeffrey, F. M.,	-	-	1883	. Von Stein, J. H.,	13	879
Toledo, I				Urbana, Champaign Co.		00
Bartlett, W.,	•	•	1881	Colwell, J. M.,		880
Bower, F. T.,	•	-	1881	Connor, J. O.,		882
Buckwell, A. J.,	-	-	1881	Cramer, G. W.,		188
Burger, A.,	•	•	1881	Fisler, I.,		882
Cheney, F. J.,	•	-	1881	Luce, J. D.,		885
Crosby, C. M.,	•	-	1881	Sullivan, E. M., -	13	885
Danforth, E. C.,	•	•	1881	Van Wert, Van Wert Co.		
Daniels, Thos.,	-	-	1881	Gackenheimer, L. F.,		882
Frazer, G. M.,	•	•	1883	Gackenheimer, M. U.,		886
Friedrich, J. F.,	-		1887	Hines, J. A.,		887
Fisher, G. H.,	-	-	1881	Noell, C. H.,	1	882
Gysel, R.,	-		1881	Vermillion, Erie Co.		
Heitzman, A.	-	•	1881	Baumhart, C. C.,	- 1	887
Heydrich, L., -	•	-	1881	Versailles, Darke Co.		
Nye, D. H.,	-	-	1881	Stierle, J. G.,	13	8 85

Wadsworth, Medina Co.	Smith, E. D. F., 1884
Curtis, C. A., 1884	Smith, E. T., 1884
Ross, J. D., - 1883	West Salem, Wayne Co.
Wapakoneta, Auglaize Co.	Gable, D., 1883
Franke, A., 1884	Gable, D., - 1883 Kiplinger, J. W., - 1884
Fuelling, D., 1884	Morr, T. N., - 188 ₃
Kayser, Wm., - 1885	West Unity, Williams Co.
Warsaw, Coshocton Co.	Denman, W. M., 1884
Lawson, D. J., 1882	Wharton, Wyandot Co.
Washington Court House, Fayette Co.	Clark, S. L., 1883
Boyer, H., 1880	Cole, C. W., 1884
Brown, T. F., 1880	Ireman, J. W., 1883
Donnan, E. V., 1882	White House, Lucas Co.
Ellis, T. B., 1887	Heath, F. M., 1881
Murray, S. W., 1886	Williamsburg, Clermont Co.
Washingtonville, Mahoning Co.	Beall, A., 1882
Walker, W. P., - 1884	Willoughby, Lake Co.
Watertown, Washington Co.	Law, G. F., 1885
Bohl, Conrad, 1881	Wilmington, Clinton Co.
Wauseon, Fulton Co.	Brown, G. W., - 1885
Collins, E. A., - 1886	Foland, D. J., 1881
Nachtrieb, C. J., 1881	Stumm, R. C., 1885
Read, J. A., 1883	Taylor, F. S., 1885
Read, M. E., 1883	Wilshire, Van Wert Co.
Waverly, Pike Co.	Piercy, C. G., 1885
Adams, A. A., 1882	Wilmot, Stark Co.
Blaser, J. T., - 1887	Spidell, C. E., 1884
Dean, A. H., 1887	Wolf, C. P., M.D., - 188 ₄
Hutt, P., - 1887	Winchester, Adams Co.
Wellington, Lorain Co.	Doyle, S., 1884
Felt, F. D., 1884	Woodville, Sandusky Co.
West Alexandria, Preble Co.	Busch, A., 1884
Davis, J. E., - 1884	Busch, H., M.D, 1883
West Jefferson, Madison Co.	Carey, M. J., M.D., - 1885
Bradley, Quin, 1882	Wooster, Wayne Co.
West Liberty, Logan Co.	Boyd, S. H., 1886
Gill, D. W., - 1886	Donnelly, F. H., - 1883
Maxwell, G. F., - 1886	Laubach, G. R., 1883
West Manchester, Preble Co.	Ohliger, L. P., 1884
Overholser, S. H., 1884	Roller, R. S., - 1883
West Mansfield, Logan Co.	Zimmerman, J., 1884
Moore, J. C., 1886	Zimmerman, J. R.,
West Richfield, Summit Co.	Xenia, Greene Co.
Haefele, G. L., M.D., - 1887	Farrell, H. J., 1886

Fleming, E. C., - 1880	IOWA.
McCormick, J. T., - 1884	Clinton.
Yellow Springs, Greene Co.	John, J. M., 1881
Ridgway, C., 1879	KANSAS.
Youngstown, Mahoning Co.	Lyons, Rice Co.
Averbeck, M. J., - 1883	Magoffin, A. E., 1881
Hall, C. F., - 1882	KENTUCKY.
Krauter, C. H., 1887	Louisville, 4th and Market Sts.
McKeown, S. W., - 1884	Pardick, B. J., 1884
Zanesville, Muskingum Co.	Schmuck, F. E., 840 Baxter Ave., 1880
Baush, K. M., 1881	Preston, cor. Broadway.
Chappelear, F. B., 1882	Schneider, A. W., - 1886
Graham, C. V., - 1882	MAINE.
Graham, W. H., 1881	Cumberland Mills.
Hatton, E. M., - 1880	Starr, H. G., 1883
Johnson, J. R., 1882	MARYLAND.
Nye, H. L., 1882	Baltimore.
Peters, D. Z., - 1880	Roy, A. H., 1881
Weller, W. A., - 1880	MISSOURI.
Wells, W. P., - 1881	Peirce City.
Widney, H. M., - 1883	Armstrong, G. R., 1879
CALIFORNIA.	NEBRASKA.
Los Angeles.	Omaha.
Buehler, J. J., - r887	Holman, J. H., - 1883
San Francisco, 319 California St.	NEW YORK.
Rosenfeld, E. A., - , 1884	New York City, 338 Broadway.
Stockton.	Reuter, W., 1881
Sanford, J. A., - 1880	Jamestown.
COLORADO.	Dronberger, L. R., - 1882
Salida.	PENNSYLVANIA.
Thurber, A. R., - 1883	Philadelphia, 2d and Poplar Sts.
ILLINOIS.	Bohn, C. H., Ph. G., - 1880
Rock Falls, White Side Co. (Box 393.)	Pittsburgh, 300 Frankstown Ave.
Flexer, A. W., 1885	Shrimplin, L. D., - 1883
Teutopolis, Effingham Co.	Sewickly.
Schiml, A. J., 1880	John W. Edwards, - 1886
INDIANA.	CHINA.
Peru.	Philander Smith Memorial Hospital, Nanking-
Leist, J. L., Ph. C., - 1880	Beebe, R. C., M.D., 1882
Plymouth, Marshall Co.	•
Hoyt, C. H., 1882	

DECEASED.

· _		Deceased.
Adolph, A		1883
Andress, J. E	Berlin Heights 1885	1886
Baush, W. F	Zanesville 1882	1886
Benedict, J. I		1884
Bixel, E	Cleveland1880	188a
Blocksom, H. W		1882
Bollman, C. J		1884
Bryant, E. D		1886
Cleveland, J. S	Burton 1883	1884
Coblentz, J. P	Springfield 1880	1883
Conwell, E. T	Cleveland 1883	1885
Dover, Thos	Dayton 1880	1881
Doyle, C. H	Chillicothe 1880	1883
Faust, C		1886
Fennel, A		1884
Fleming, E. M		1804
Foote, N. W	Wellington 1883	1883
Goehring, Phil		1883
Hickox, L. A		1883
King, A. P		1882
Kistners E. C		1886
Lawyer, L		1885
Leick, R. H		1885
Limb, A. A		1885
McClun, C. M		1885
Miller, H. L		1886
Minear, A. W. S	5	1886
Muntell, H	•	1885
Neuhart, L. A		1883
Nicolay, S. J		1887
Plymire, L. E		1883
Rehfus, C. A		1886
Reum, H. F		1886
Sherrick, P. F		1868
Smith, A		1882
Spayd, G. H		1884
Steiner, M. B		1882
Thayer, G. M		1885
Uthe, J. F		1889
Wagner, A		1886
Wines, F. E	<i>-</i>	1886
Wolfe, H. H	Springfield 1881	1884

RESIGNED.

		Elected.	Resigned.
Buell, W. H	.Marietta	1881	1886
Dolph, W. H	Flmore	1884	1885
Everette, E. S	Portland Me	1880	1884
Everette, E. S	. Fortiand, Mc	1881	1876
Glaser, C. H	.Norwaik	-99-	
Heister, L	.Cincinnati	1000	
Heister, E. M	.Cleveland	1880	1009
Hoyt, H. H	North Fairfield	1882	1886
Jones T. A	Venedocia	1882	1886
Jones 1. A	Possoe	1882	1886
Lee, E. S.	. Roscoe	r880	1882
Lippert, O. C. F	Cincinnati	-00	
Merrell, A. H	.Cincinnati	1004	
Seymour, F. W	. Wheeling, W. Va	1881	1007
Weichsel, F	Cleveland	1881	1886
West, C. W	Toledo	1881	1884

DROPPED FROM THE ROLL

FOR NON-PAYMENT OF DUES.

Elected.	Electe d.
Allen, C. S., Cleveland1880	Lyon, C. W., Spring Valley1880
Allen, J., Montpelier1880	McComley, R. K., Bridgeport1882
Allen, E. H., Eaton1880	McLaughlin, J. D., Butler1882
Aknoyed, W., Dresden1882	Myers, F. W., East Liverpool 1880
Arick, C. V., Newark1882	Myers, J. A., East Liverpool 1880
Arthur, W., Columbus1882	Newhart, D., Jr., Caldwell1882
Backus, J. A., Grand Rapids1881	Newlove, B., Marysville1879
Baker, W. A., Urbana 1883	Nickerson, C. L., Lima1883
Binkerd, A. W., Lima1880	Page, F. D., Tiffin1884
Bittner, G. C., Toledo1881	Pearce, L. McArthur1883
Byrnes, R. M. M. D., Cincinnati. 1879	Richards, A. J., Marietta1881
Chapman, W. C., Toledo1881	Roberts, L., Stoutsville 1882
Clark, W. T., Willoughby1883	Ruff, W., St. Paul, Minn1881
Coblentz, C., Cleveland1879	Samules, S. E., Columbus1879
Compton, J. E., Coshocton1882	Scarborough, E. W., Cincinnati 1881
Conly, J. J., Great Bend, Ind 1880	Schuerman, F., Cincinnati1881
Conner, G. W., Xenia1880	Schultz, B. F., Kenton1881
Cromwell, G. O., Mansfield1881	Scribner, J. J., Mt Vernon1880
Darrah, J. E., Fargo1882	Shaw, J., Zanesville1882
Davies, E. E., Milwaukee, Wis 1880	Shinn, E., Dayton1880
Deems, W. C., Columbus 1883	Siddall, E. E., Findlay1882
Dietrich, J. W., Carthage, Mo1880	Sipe, W. F., Sarahsville1882
Eysenbach, H. P., Delphos1882	Slater, J. W., Ironton1881
Gardner, R. H., Columbus1881	Smith, L., Xenia1880
Gore, H. W., Salem1883	Somers, H., Canton1881
Gossler, T. J., London1882	Spayde, W. H., Helena1881
Grand, Girard, H. E., Circleville1881	Stinchcomb, C. L., Canton1882
Hays, J. S., Chicago, Ill1883	Thomas, C. F., Cincinnati1880
Hirst, J. J., Yel!ow Springs, 1879	Troll, C. W., St Clairsville1871
Hirst, T. C., Yellow Springs 1879	Van Law, J. D., Bellaire1889
Hoglin, Phil., Newcomerstown 1881	Van Loon, W. C., Cincinnati 1881
Irwin, C. L., Mansfield1881	Vaupel, C. P., Cleveland18∞
Jones, E. C., South Charleston1880	Wetzel, G. H., Lancaster1882
Lewis, J. E., Troy1880	Zimmer, F. P., Omaha, Neb 1882
Total number of Active I	Members elected, - 1,082
Number of Deaths,	42
Number Dropped from Roll	13
Number of Deaths, Number of Resignations, Number Dropped from Roll Number of Members out of the St	ite, 22
	145
Total Membership in the State,	937
Total Membership in the State,	93/

LIST OF PHARMACISTS

Registered in 1884. Re-registered in 1887.

		_	
0894	Abbey, J	1649	Andrews, R. SSeal
0466	Abbey, W. JDayton	2158	Andrews, John A Carthage
•	Abbott Lafayette Clearport		Andrews, W. CCortland
2009		0710	
0474	Acker, P Cleveland	1683	Angier, A. EColumbus
0650	Ackermann, J. N Columbus	2555	Anliker, Otto EToledo
1487	Ackerman, P. J Columbus	0376	Aplin, C. F Carbon Hill
0672	Ackley, I. LOakwood	0222	Armour, E. EChagrin Falls
0784	Adams, A. AWaverly	1794	Armstrong, L. LCincinnati
1441	Adams, E. C Elyria	1100	Armstrong, P. M. New Lisbon
	Adams F W Williams		
1626	Adams, E. W Wellington	1090	Arnold, D. R Sandusky
1976	Adams, J. HFort Recovery	1430	Arnold, G. LCambridge
1975	Adams, J. FFort Recovery	1431	Arnold, MaudCambridge
0900	Adams, Louise M Warren	1909	Arnold, J. P Lore City
0051	Adams, N. BBelpre	1732	Ash, L. BAshland
0271	Adams, W. HCincinnati	0914	Asher, J. HSedalia
0371	Adderley, W. H Cincinnati	0739	Ashton, A. SPiqua
	Adoit Organ Culmonia		Ashton, D. T.
0350	Adsit, OrsonSylvania	0741	Ashton, D. TPiqua
1774	Ailer, J. F New Washington	0740	Ashton, W. B
0745	Akeroyd, WmDresden	1619	Ashton, ELima
0333	Aldrich, D. LWeston	2067	Asplin, John HCleveland
			Aspin, Join IICleveland
0655	Aldrich, F. JRising Sun	0243	Atkinson, F. ACadiz
I 540	Aldridge, John DSarahsville	0984	Atchison, J. RLondon
0251	Albert, L. AJamton	2090	Austin, E. L Plymouth
0088			
	Albro, W. H Medina	1713	Austin, George., Celina
1898	Allen, A. A Toledo	1207	Austin, W. CGeneva
0279	Allen, E. H., Jr Mar etta	0105	Axline, A. AFultonham
0120	Allen, John E Columbiana	0056	Axline, C. ELancaster
			Axime, C. ELancaster
0669	Allen, F. LKent	0662	Ayers, H. CSidney
1819	Allen, Thos. M Portland	1943	Ayers, James MCincinnati
1514	Allen, John RMt. Oreb	0052	Ayers, Mary ACincinnati
1695			Doch W I Fort T 1
	Allen, S. EAkron	0798	Bach, W. J East Toledo
1030	Alexander, C. CCleveland	2103	Bahrenburg, C. H Marion
1694	Alexander, W. WAkron	084 8	Bailey, A. DRidgeway
1084	Alexander, John, McConnellsville	1668	Bailey, F. PZanesville
0982			Poilon Coo Fire T 1 1
	Althaus, Henry Taylor's Creek	025 0	Bailey, GeoEast Toledo
0209	Althaus, Fred., Jr, Taylor's Creek	1584	Bailey, John CPioneer
0280	Amann, CSidney	1583	Bailey, S. LPioneer
1045	Amann, C. E., Sr. Portsmouth	2535	Bailey, Wheeler J Columbus
0554	Amann, FrankPortsmouth	1669	Bailey, Willis Zanesville
1599	Anderson, Chas. E. Coshocton	1867	Bailey, Wm. N. East Liverpool
1600	Anderson, JohnCoshocton	1351	Baird, C. C Pataskala
1776	Anderson, W. PMarysville		Daied U U Descript
	Anderson, w. F winrysville	1350	Baird, H. H Pataskala
1775	Anderson, John W. Marysville	1352	Baird, Joseph Pataskala
2150	Anderson, Leroy K. Coshocton	0329	Baird, J. H Pataskala
0491	Anderson, J. WUrbana	2075	
			Baird, RobtEast Springfield
1397	Anderson, R. R Mowrystown	0834	Baker, B. FSt. Paris
1476	Andrews, A. HDupton	1321	Baker, D. WColumbus
••		.	,

0328	Baker, George RMt. Vernon	2050	Beile, C. FCincinnati
1154	Baker, P. ABirmingham	1164	Belding, E. CRavenna
0143	Baker, P. AMt. Vernon	0428	Belford, H. P Granville
0558	Baker, R. FThornville	2191	Bell, J. CStafford
1078	Bakhaus, Adolph Springfield	0556	Benedict, A. EUtica
1944	Bakhaus, EdmundCincinnati	1637	Benedict, D. DNorwalk
1267	Baldwin, Frank M. Blanchester	1908	Benner, Charles CColumbus
0927	Ball, T. B Ironton	2053	Benner, Pedro Cincinnati
0499	Ball, W. FNiles	0835	Bennett, La Roy SLithopolis
	Ballard, W. A Greenville	1950	Bentley, Edwin S Hudson
1864	Balsley, W. FNapoleon	1040	Berg, Fred Upper Sandusky
0930	Baltzley, Z. F Massillon	0176	Berger, AToledo
0276	Bankson, ElliotEdon	0089	Berger, E. LCrestline
2063	Banter, George W. Koogle P. O		Renger Ios I- Columbus
1383	Banter, George W Roogie 1. O	0114	Berger, Jos., JrColumbus Bertolett, E. E Shreve
0750	Barnes, F. A Austinburg	0022	Berube, Louis N Glendale
1448	Barnes, W. W Austinburg	2529	
1071	Barnes, Fred J Painesville	0449	Betz, Otto ECincinnati
0658	Barnett, J. NRix's Mills	0067	Bevan, John Mendon
1079	Barr, J. D Marseilles	0195	Bevard, Henry Canal Fulton
1698	Barr, P. HCanton	2159	Beyerle, G. WmCleveland
0443	Barr, Sam'l ECanton	1066	Biehl, Lewis A Sandusky
0837	Barret, B. SRutland	2560	Biddle, H. G Cleveland
0397	Barringer, DRocky Ridge	2089	Billhardt, AUpper Sandusky
0555	Barry, T. MFayetteville	1972	Binckley, G. SKenton
1693	Bartholomew, A. U Vienna	1971	Binckley, J. WKenton
1767	Bartholomew, M. S. New Holland	1299	Bingel, Albert Cincinnati
1566	Bartlett, J. ACleveland	1757	Bixby, Jerome Castalia
1719	Bartlett, G. WToledo	0711	Black, B. HFreeport
1720	Bartlett, WmToledo	0978	Black, C., JrGroveport
1004	Barton, Chas. ENorwalk	1163	Black, L. KAkron
1595	Barton, JamesMansfield	0486	Black, W. R
1596	Barton, Will M Mansheld	0199	Blackburn, A. W Wooster
1605	Barton, T. HSyracuse	1097	Blake, H. B Sidney
1580	Bates, R. CWilloughby	2023	Blakemore, J. W Winchester
2522	Bauer, Frank AColumbus	0883	Blankenhorn, B Orrville
0227	Bauer, JohnCincinnati	0824	Blaser, Jas. T Waverly
1012	Baumgart, Mrs. J. ALorain	0755	Blass, CharlesCleveland
	Baumgartner, FChillicothe	1411	Bleckner, WmOak Harbor
0095 1680	Baush, K. MZanesville	2166	Bleher, J. C New Richmond
	Baxter, Minerva JIrondale	1189	Bliss, C. C Delphos
1417	Beall, Alexander. Williamsburg	1844	Block, John West Alexandria
0005	Beall, John	1696	Blocker, H. CAkron
2017	Beall, John ACadiz	1787	Blood, James CFranklin
1006	Deall W M Stanbanville		Blum, F. Jr Canton
1450	Beall, W. MSteubenville	1334	Blythe, CatharineOwensville
0421	Beam, J. H Powhatan Point	0754	Bock, A. WCleveland
2072	Beany, W. WSteubenville	0947	Boehmer, A. LCincinnati
1738	Beard, J. M Spencerville Beardsley, W. P Bainbridge	1300	Boehme, Chas. E. Germantown
0100	Beardsley, vv. r Bainbridge	1363	Bohl, Conrad Watertown
0254	Beck, John W Lancaster	0011	Doba T Li Camdon
2101	Beckel, Geo. W Defince	0747	Bohn, J. H
0897	Beckman, Fred G Delphos	0557	Bohn, M. G Miamisburg
2157	Beecher, E. NBellevue	0073	Boise, James C Seville
1556	Beeler, John L Hamilton	0071	Bolger, J. CSalem
1557	Beeler, S. L Hamilton	1999	Bolles, J. DBowling Green
2172	Beeman, JCleveland	1392	Bonar, R. S Highland P. O

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1046	Bond, B. F Vermillion	1022	Bryan, E. HIronton
0999	Bonnell, D. WHubbard	0275	Buchanan, C. RHarmon
0949	Bonner, Calvin A Dayton	1149	Buckland, Ralph P., Jr Fremont
150o	Bood, J. FBolivar	1150	Buckland, SFremont
1360	Borden, Joseph Blackcreek	2537	Buckwell, A. JToledo
1986	Bowles, F. O Laydsville	1370	Buell, WmAkron
0748	Bossert, O Washingtonville	1640	Buell, Wm. HMarietta
	Bostwick, N. B Newark		
0141	Dostwick, N. D Newark	2102	Buffington, J. P Defiance
2109	Boswell, Edwin Cincinnati	1833	Bunn, James WWest Union
0992	Bott, J. H Shawnee	0832	Bunn, JohnBatavia
0181	Bowdle, J. A Pleasant Bend	1298	Burdsal, SamuelCincinnati
2511	Bower, F. TToledo	1125	Burgoyne, W. RSteubenville
2108	Bowers, C. C Port Williams	1671	Burket, Geo. WRawson
0425	Bowie, A. T Bridgeport	1216	Burky, Jacob Shanesville
	Boyer, Harry Washington C. H		Burnett, J. CSabina
0273		0591	
0912	Boyer, J. MLondon	0592	Burnett, T. MSabina
0759	Braddock, M. JSomerset	1437	Burns, B. FFindlay
1835	Braddock, M. JSomerset	0311	Burris, C. VDanville
2163	Bradley, QuinnWest Jefferson	2131	Burson, G. W Waynesburgh
2111	Braineid, C. W. Mantua Station	1664	Burson, S. M Hanoverton
0684	Brand, C. WMt. Blanchard	1706	Burtch, A. WGreenwich
0388	Brant, E.D	1707	Burtch, Chas. EGreenwich
			Durton, Chas. E Greenwich
0987	Brandt, J. HLucasville	1937	Burton, G. FSpringfield
0852	Brant, J. W	1579	Burton, W. H
2534	Braun, Carl LColumbus	1081	Rusch, A
0799	Braun, HermanColumbus	1325	Busch Ed. M Elyria
1052	Breckenridge, B. F Kipton	1082	Busch, H
1907	Brede, J. H Middletown	2006	Burkitt, John L Dayton
0036	Breese, A. HMt. Gilead	0520	Butler, Frank Bellefontaine
0037	Breese, J. MMt. Gilead		Buttemiller, J. C Cincinnati
		1123	Purtur II I I I I I I I I I I I I I I I I I
1122	Brehm, L. CCincinnati	0306	Buxton, H. JJohnstown
0145	Brenneman, J. R Elida	1634	Byrne, John Columbus
0316	Brenneman, J. WLindsey	2160	Byers, H. MSycamore
1231	Briggs, ECuba	2076	Byers, BenjaminVigo
0019	Briggs, FrankDelta	2082	Byard, D. R
1233	Briggs, W. H Mt. Gilead	2514	Byrider, JohnAkron
1256	Bright, T. N Chagrin Falls	1171	Cadwell, DavidMonroe
2144	Bright, WmWellsville	1965	Calkins, Authur BCleveland
1562	Brinker, J. H Bellevue		
	Drinker, J. H Dellevue	0716	Callahan, P. AMingo
1678	Brighton, L. S Hagerman	1404	Campbell, G. WClarksville
0186	Bristle, C. DCincinnati	1970	Campbell, J. SCleveland
0774	Brock, Geo. WLancaster	1384	Campbell, W. H Congress
1226	Brockerman, Geo Rushsylvania	0068	Campbell, W. JLaRue
0382	Brongers, John Hinckley	1814	Campbell, Shelby PAberdeen
0771	Brookins, W. C. M Eaton	2542	Carmon, N. FLyons
0296	Brooks A Wellston	1940	Carey, M. JWoodville
	Brooks, A		
0149	Drown, Co. W. Wilminster	1672	Cargill, HFort Jefferson
0085	Brown, Geo. W Wilmington	1063	Carlin, G. A West Salem
2525	Brown, J. EGranville	0432	Carlisle, Frank L Newton Falls
0026	Brown, J. JSpringfield	1704	Carmack, G. L. North Baltimore
1712	Brown, R. S Summerfield	0225	Carmon, C. ELyons
1799	Brown, T. F Washington C. H	1475	Carnahan, W. SSteubenville
1486	Brown, Wilber Sycamore	1774	Carnahan, JamesSteubenville
0853	Bruce, JamesCleveland	1130	Carnell, H. D Dayton
2516	Bruck, Philip HColumbus	1129	Carnell, H. G Dayton
2310	Druck, Limb IIColumbus	1129	Carnen, II. G Dayton
	*		

0287	Carothers, WCarey	2146	Cline, W. CWilksville
0691	Carpenter, S. WDelhi	1472	Costes, J. WLebanon
1850	Carr, AaronLiverpool	0139	Coblentz, CCleveland
1271	Carroll, F. S Cleveland	0115	Coblentz, Frank H Springfield
2544	Carsey, John TPortsmouth	0028	Coblentz, VirgilSpringfield
1508	Carson, D. D Palmyra	1852	Coe, Geo. OEdison
0717	Carson, F. K Springfield	0645	Coe, J. M Mt. Gilead
1410	Carter, B. FArcanum	0785	Coffman, H.C. Washington, C. H.
0391	Carter, Geo. HiramDelaware	1845	Coffman, J. A West Alexandria
1033	Cartwright, J. WPayne	0451	Cokefair, Chas. B. College Corner
1511	Carvin, Theodore SEdon	0614	Colby, Willis DDefiance
1369	Case, A. HMilan	2036	Cole, J. CMontgomery
0639	Case, F. SBellefontaine	0732	Coleman, Geo. ETroy
0408	Case, F. SLogan	0972	Coleman, J. CMineral
0628	Case, J. HAkron	0446	Collett, O. F New Burlington
0973	Casenhiser CClinton	0819	Collins, F. ANewark
0943	Caslow, R. C. Canal Winchester	1386	Collins, J. JDeshler
0762	Casper, T. JSpringfield	8180	Collins, Jas. WNewark
1023	Cassaday, A. SAlliance	2512	Collins, Paul L. DNewark
1890	Cassady, L. LWest Laylayette	1199	Collins, P. S. Washington C. H.
2098	Cassady, JuliusCleves	0817	Collins, R. F Newark
1739	Casterline, J. PPainesville	1245	Collins, R. JTontogany
1736	Casterline, Z. F Painesville	2070	Colwell, Jas. MUrbana Conkright, A. BRichwood
1152	Crawley, P. FFayette	1198	Conkright, A. B Richwood
1758	Chadwick, W. MFindlay	0111	Conner, B. FCarysville
1897	Chambers, R, WMt. Pleasant	0565	Conner, John FCumberland
0198 0769	Champney, A. RPerrysburg	0215	Connor, John OUrbana
	Chapman, C. H. North Fairfield	1639	Converse, A. ZCarroll
1250 0659	Chapman, S. DLorain	0725	Cook, A
0630	Chappelear, C. FZanesville Ohapelear, F. BZanesville	1414	Cook, F. G Youngstown
0631	Chappelaer, W. MZanesville	1767	
0632	Chappelear, W. RZanesville	0513	Cook, Frank M Prospect Cook, Geo. W Prospect
2176	Charles, I. CLucas	0312 0823	Cook, Harry CColumbus
1426	Chatfield, F. ABloomville	0779	Cook, John RColumbus
0836	Chatten, J. HMilford	1765	Cooke, L. JGeneva
2556	Cheney, F. JToledo	1881	Cook, Sanford W. East Toledo
1056	Chilcote, Wm. HEdgerton	0422	Cook, T HScio
0826	Chilcote, JoshuaEdgerton	1887	Cook, W. MMadison
1055	Chilcote, J. M Edgerton	1858	Cooley, Samuel Harriettsville
1980	Chittenden, E.SRepublic	0813	Cooley, Samuel Harriettsville Cope, W. M Cleveland
2086	Christy, T. HRoseville	2025	Cole, P. CMontgomery
2181	Clancy, C. WSmithfield	1770	Copeland, E. JChester
0609	Clark, A. SBeverly		Corcoran, D. OOxford
0138	Clark, B. ECortland	1373 0188	Corill, J. OJefferson
1750	Clark, C. AMt. Sterling	1395	Corn, JasperFrazeysburgh
1841	Clark, D. LKimbolton	1468	Cornell, J. W Hazelwood
o 666	Clark, F. PNorth Baltimore	1803	Cornell, Chas RColumbus
1989	Clark, S. CCortland	0634	Cornet, Geo. A, Port Washington
1658	Clark, S. L Wharton	0633	Cornet, L. A Port Washington
0670	Claassen, EdoCleveland	1428	Corry, M. HXenia
1014	Clayton, E. PSomerset	1568	Cottingham, W. ATroy
1880	Clemons, Chas. EToledo	2022	Coulson, E. G Pennsville
1241	Cline, A. MGraysville	0810	Covert, J. WellsPerrysville
2132	Cline, S. TLee	1499	Cowgill, A. B Zanesville

1086	Cox, Daniel Martin's Ferry	0477	Day, H. LNew Vienna
1263	Craine, ChasGeneva	0196	Dean, W. DKenton
0967	Crane, R. W Greensburg	1316	Decker, GerhardCincinnati
0490	Cramer, Geo. W Urbana	0749	Deckman. W. HMalvern
1366	Cramer, S. P Hubbard	0411	Deems, W. C Toronto
0869	Crane, E. JIberia	2115	Dehmel, Louis W yoming
1413	Crawford W. L., Columbus Grove	2044	DeLang, Alfred Cincinnati
1381	Crawford, S. BKieferyille	2523	Delphey, Eden VToledo
1753	Crist, F. WNevada	0977	Dempsey, J. A., Berlin Cross Roads
1422	Crites, Harvey Akron	0441	Denig, John MColumbus
0904	Crites, Geo. WCanal Dover	1099	Denis, HenryCincinnati
1996	Crittenden, C Geneva	2117	Denison, L
1851	Crittenden Henry WBurton	0389	Denman, D. MCincinnati
2013	Critzer, Mrs. AmeliaAi	0390	Denman, JohnCincinnati
1884	Crosby, C. MToledo	1036	Denman, Wm. M. West Unity
•	Crossland, J. F. St. Clairsville	1484	Dent, J. CBridgeport
0134 2052	Crowther, F. ACincinnati	1065	Dentler, S. S Republic
	Churchill, S. PCleveland		DeRoads, W. H., Franklin Square
1964		1552	Dervices D V Springfeld
1945 1886	Crumley, C. WSteubenville	1159	Derrickson, D. KSpringfield Deuschle, W. DChillicothe Deutsch, J. WCleveland
	Cullison, W. W Toledo	2520	Deuschie, W. DChinicoine
0224	Cunning, Officer Trenton	0060	Deutsch, J. WCleveland
1114	Cunningham, J. CShreve	1879	Dever, EdFredericktown
1200	Cupp, Chas. VBellevue	1956	Dewitt, M. ACleveland
0290	Currey, J N Georgetown	0988	Dew, J. TSummerfield
1243	Curtis, R. LMarietta	1465	Dick, CSandusky
1662	Curtis, W. PWadsworth	1355	Dick, W. L Columbus
2114	Daily, A. CLee P. O	1359	Dickson, E. CCanal Dover
1237	Dalrymple, FrankHicksville	1728	Dickerson, Geo. ZMalta
0951	Danforth, E. CToledo	1306	Diehl, ChasCincinnati
2049	Daniels, Henry GCincinnati	0970	Diemert, Daniel ACleveland
0676	Daniels, ThosToledo	1899	Deitz, J. C
0217	Danley, H. MRacine	1632	Dittoe Linus LSomerset
1252	Dann, A. TCincinnati	0157	Dixon, George MDixon
0172	Darrah, D. HBellaire	1042	Doak, A. SWinchester
0760	Darrah, J. W Martin's Ferry	1984	Dodd, G. WDell Roy
1174	Davidson, AndrewLancaster	0833	Doeller, George Hamilton
1173	Davidson, James ALancaster	1301	Doerr, C. ACincinnati
0182	Davis, Adam	1009	Doll, Aaron
2010	Davis, B. FTontogany	0757	Doll, W. HSt. Marys
0197	Davis, C. W Jeffersonville	1624	Doran, L. SRushsylvania
0338	Davis, DanielMidland City	0942	Dorfmeier, Jno. HDayton
1647	Davis, D. DEdinburgh	1176	Douce, C. WCaledonia
0543	Davis, D. JOak Hill	1333	Douds, Alvin HCanton
0606	Davis, EMiddleport	1702	Dougherty, L. EGreentown
1871	Davies, T. C Ironton	1816	Douglass, C. FKalida
2008	Davis, Frank G Tippecanoe City	1912	Douglass, WmKipton
1347	Davis, Jas. MChillicothe	2005	Dover, R. FayDayton
0162	Davis, J. D Kent	1217	Downar, J. RCambridge
1215	Davis, J. EWest Alexandria	0965	Downing, A. JHollansburgh
0286	Davis, J. F Portsmouth	1621	Doyle, SamuelWinchester
0307	Davis, J. LKimbolton	1069	Drach, Geo. LCleveland
1001	Davis, S. H Oberlin	0230	Drake, Wallace CLodi
0322	Davis, W. P Akron	1961	Drackett, P. WCleveland
0322	Davis, W. TLeesburgh	0580	Dreher, AlfredCleveland
1855	Davison, Monroe. West Newton	0581	Dreher, LCleveland
2033	Parison, Montoc West Mewton	0201	Dichei, DCleveland

0862	Duffield, W. HGermano	2188	Evans, Jason SCincinnati
0106	Dugan, A. W White Cottage	1188	Evans, J. WDelphos
1145	Dunham, L. E Mt. Washington	0991	Evans, Jas. P Bradner
1146	Dunham, W.E Mt. Washington	1827	Kvans, L. C Dayton
0683	Dunlap, G. G Unionport Dunlap, W. B Unionport	1826	Evans, OwenDayton
0682	Dunlap, W. B Unionport	0417	Evans, S. B Circleville
1223	Dunn, F. H Bainbridge	1745	Eveland, Geo. H Miamiville
1418	Dupler, Thos Gloucester	1161	Ewing, G. AJackson
1048	Dustin, C. HCleveland	1727	Ewing, John McConnellsville
0136	Dye, W. H Harrisonville	0059	Eyman, Lou. E Groveport
0642	Eady, Henry IElyria	1089	Eyman, H. CGroveport
0831	Eady, Henry JElyria Eakin, T. C. Columbus Grove	0569	Eysenbach, H. P Delphos
1815	Earhart, A. CLocust Ridge	1302	Fabing, JCincinnati
1734	Earhart, Clifford Franklin	1279	Fallon, J. MCincinnati
1733	Earhart, M. WFranklin	1083	Fannon, S. JBowersville
0518	Eaton, HBarnesville	1797	Farquhar, G. SGlenford
0522	Eddmon, A Tontogany	0239	Farquhar, JohnBucyrus
0370	Eger, GeorgeCincinnati	0238	Farquhar, WmBucyrus
0023	Eggleston, J. V. New Plymouth	1811	Fasig, A. MWest Cairo
1873	Egner, FCincinnati	1812	Fasig, C. SBeaver Dam
1491	Eichberg, Julius H. Cincinnati	0104	Fauley, C. BFultonham
1503	Eisenhour, Chas. L Massillon	1372	Faulkner, L. WSt. Paris
1553	Eisenhour, W. A. Oak Harbor	1394	Federspiel, PhilipSt. Marys
1714	Elder, J. J Bremen	1718	Fee, F. MBethel
0652	Eldrick, J.DGreenfield	2032	Feemster, WilliamCincinnati
0811	Elflein, Wm. FCleveland	2524	Feil, JosephCleveland
1872	Elfers, Joseph C Cincinnati	1955	Feil, Sidney RCleveland
0866	Ellis, JamesHarveysburg	0381	Fell, A. RBurgh Hill
0981	Ellison, O Ironton	1156	Fella, J. BToledo
0344	Ellsworth, C. SBrecksville	0665	Felt, F. D Wellington
1419	Elser, P. CDupont	1987	Fenimore, J. EFremont City
2183	Elwell, W. H. C. Rural Dale	0357	Fennel, C. T. PCincinnati
2184	Elwell, T. L Rural Dale	0352	Fenner, J. CShiloh
0124	Elwood, ClarkLeesburg	1969	Fenton, C. FCleveland
0604	Ely, J. SBarnesville	1409	Ferguson, C. WRoscoe
1466	Emanuel, Emma CAntwerp	1147	Fickardt, Geo. HCircleville
1132	Emrick, D. LGreenville	1278	Fieber, G. ACincinnati
1341	Emrich, J. H Sandusky	0377	Field, J. WMarysville
0684	Emery, G. ARendville	2105	Field, W. CCleveland
0643	England, W. LJewett	2139	Fife, W. JMelrose
0119	Englebry, F. E Vermillion	0462	Finfrock, M. BMansfield
0537	Ensign, Chas. A Youngstown	0500	Finney, Drayton JNiles
0538	Ensign, EllisYoungstown	0931	Finney, Geo. WDennison
1158	Eppelin, ChasPomeroy	2142	Fisler, ArthurBurbank
0185	Ernest DMechanicsburg	0214	Fisler, I
1368	Erwin, James Jay Hazelton	0854	Fisher, Emil ACleveland
2533	Esch, C. ACleveland	0168	Fisher, GeorgePortsmouth
2002	Espach, J. Geo Cincinnati		Fisher, J. V Morristown
2069	Espy, J. AYoungstown	0090 1820	Fisher, M. AMiamisburg
0548	Eshelman, L. JFostoria	0006	Fitzpatriol C T Family
1543	Estep, J. HNew Athens	0761	Fitzpatrick, S. JFayetteville
0337	Eubank, ThomasCelina	•	Flandermeyer, H. D. Cleveland
0856	Evans, E. HCleveland	0472	Flavier Wm Paulding
0850	Evans, E. M	0974 1010	Flavien, WmPaulding
0879	Evans, GeorgeDublin		Fleck, J. JTiffin Fleming, A. HEast Liverpool
/9	Ziana, George Dubin	1115	riching, A. II East Liverpool

1633	Fleming, E. CXenia	1575	Fulton, ThomasFrankfort
1801	Flickinger, Geo. W. Mogadore	2567	Funk, F. MToledo
0444	Flood, W. HCleveland	0786	Funk, H. HBeverley
1031	Frnncis, H.SUhricsville	1396	Funk, M. F Mowrystown
1117	Francis, W. J Uhricsville	1582	Furney, M. GKenton
	Francisco, ChasDayton	0607	Gackenheimer, L. F. Van Wert
1535	Franke, AWapakoneta		Gaitree, W. B Cincinnati
0890	Franks, L. KDoylestown	0309	Calbreath T W Himmings
0986		1196	Galbreath, J. W Higginsport
1461	Fratz, J. G	0724	Galloway, GeoXenia
1573	Frazer, G. MBellefontaine	0497	Gans, Wick CYoungstown
1187	Frazer, O. F Chagrin Falls	1000	Gardner, A. J Grand Rapids
2105	Fredenburg, W. MConvoy	1002	Gardner, J. M Oberlin
0330	Freehaser, J. B Port Clinton	0218	Garlington, Conway, Cumberland
2077	Freeman, Chas. EColumbus	0838	Garrett, J. WAdamsville
2066	Freeman, Will WColumbus	1390	Garrison, Geo. MRochester
0072	French, L. BSalem	0924	Garritt, J. MHuron
0689	Frey, J. WFindlay	0839	Garver, AlexNavarre
1688	Prey, S. D	2037	Garver, Philip A Strasburgh
2048	Foertmayer, A. W. Cincinnati	1328	Garwood, D. H. West Liberty
0242	Fogle, G. TAlliance	1830	Garwood, F. A Springfield
2024	Foland, D. JWilmington	1903	Garwood, Spencer Milford Cent'r
0948	Folkers, C. Otto Cleveland	0568	Gates, AntonToledo
0213	Folkeas, C. OttoCleveland Folsom, C. BYoungstown	0024	Gates, JosephToledo
	Foltz Mrs M I Montroller	0656	Gatewood, W. EStockport
0285	Foltz, Mrs. M. JMontpelier Foncannon, C. WToledo		Gault, T. F New Concord
1612	Foncannon, G. U., Liberty Centre	1358	Gault, W. PWesterville
1778	Folicamion, G. U., Liberty Centre	0507	
0041	Forbes, RobtBedford	0954	Gaylord, Henry CCleveland
1168	Ford, E. LMiddlefield	1143	Gazlay, JohnClyde
1525	Ford, OscarCollins	0216	Gearheardt, T.J, Tippecanoe City
1013	Ford, Wm	1642	Gee, F. EAshtabula
1651	Foreaker, John WCorning	0527	Gegelein, Fred LCleveland
2137	Forrest, James TCleveland	0155	Gehrung, John MCleveland
1925	Forman, H. MBradford	2135	Geiger, John CCleveland
0070	Fortney, BOrwell	1228	George, A. HCleveland
1407	Foster, A. M Steubenville	2128	George, Robt. HCleveland
1701	Foutz, A. LWest Lafayette	1135	Gerstacker, M Cleveland
2064	Fovargue, F. PGenville	291	Gest, Albion PColumbus
0261	Foye, W. B	0317	Geyer, J. LNorwich
2557	Frederich, J. FToledo	1783	Gibbons, Ed Painesville
0074	Friedland, J. FCoalton	0281	Gibson, F. W Amesville
1280	Frihmelt, ECincinnati	256-	Gibson, Walter MPortsmouth
0423	Fristoe, Ed. JHebron	1730	Gilbert, A. WLima
	Fritcher, JamesFostoria	0504	Gilbert, DanielVanlue
1759 1828	Frizell, J. SDayton	0485	Gilbert, H. ALockland
	Fromme, AlbertCincinnati	1836	Gill, D. W West Liberty
1636			Cill Can Ricomingville
0392	Frost, A. H	1509	Gill, GeoBloomingville Gillard, W. HOxford
1330	Frost, F. H Lebanon	1406	Githens, E. WBridgeport
0730	Fuelling, L. D Wapakoneta	1679	Given, J. MChandlersville
0201	Fuller, C. WNewark	0587	Clairle W
1344	Fullerton, H. SHillsboro	1492	Gleick, Wm. M Cincinnati
1771	Fuls, OttoCincinnati	1832	Gleim, J.CCleveland
1068	Fulkerson, G. WWynant	0137	Glenn, A. H Sardinia
0236	Fulton, CBucyrus	0597	Glines, Geo. WCleveland
0237	Fulton, M. DBucyrus	2507	Godfrey, C. PFostoria
1576	Fulton, RobertFrankfort	2038	Goetze, H. JLockland

2152	Goetze, Wm. FLockland	0263	Gwinner, Arnold F Dayton
1958	Godman, C. A Cleveland	0521	Gysel Robert
2118	Goheen, C. E Hepburn	•	Glandt, WCincinnati
2505	Goldbach, JohnToledo	0901	Haag, Geo. DCleveland
2079	Good, J. CCleveland	1992	Haber, Louis A Cleveland
• •	Good, J. F New Hampshire	0709	Hackedorn, H. G Galion
1915	Coodbased T N Newsda		
0503	Goodbread, J. N Nevada	0708	Hackedorn, M. LGalion
0502	Goodbread, W. F Nevada	1389	Hageman, J.F. S. New Madison
0359	Goodman, EmanuelCincinnati	1481	Hagerman, S. ADunkirk
1717	Gordon, T. VJunction City	2094	Hahne, John ADayton
2041	Goss, Alfred R Edinburgh	1195	Haight, A. P Remson's Corners
2040	Goss, Ambrose SEdinburgh	0187	Hair, T. GAlliance
2042	Goss, Nathan KEdinburgh	1247	Halboth, J. APemberton
1581	Goull, D. TBerea	1563	Hale, F. P Bellevue
1318	Grieme, FCincinnati	0909	Hale, W. F, Jackson
1051	Griffith, A Millers	1087	Hall, J. MGreenville
1050	Griffith, G. WMillers	1088	Hall, J. WGreenville
	Grimes, G. G Bairdstown	1860	
0144			Hall, R. CLewis Center
0027	Grimes, H. MOstrander	1994	Hall, Wilmot JCincinnati
1172	Griswold, Edgar W Cleveland	1110	Hamel, HenryGenoa
0911	Graef, PaulFletcher	1405	Hamill, JasonClarksville
2177	Graham, J. W Prairie Depot	0150	Hamilton, M. NNew Lisbon
1520	Graham, Allan. Jr Ottawa	1661	Hamilton, Thos. T Wellsville
0679	Graham, Clar. VZanesville	0015	Hamilton, Wm. M Wellsville
1607	Graham, G. ALebanon	0778	Hamlin, R. EToledo
1795	Graham, Miller Avondale	1186	Hammer, O. S Lynchburgh
0678	Graham, W. ASandusky	0738	Hammer, W. P Westboro
0694	Grand Gerard, G. F. Circleville	0979	Haner, APlain City
0208	Grasser, Geo. D Newark		Hanes, John HHarrisburgh
0626		0232	
	Graves, P. A	0336	Hannah, W. HGeorgetown
1817	Green, E. ENew Paris	08 99	Hapgood, AdelineWarren
0406	Greene, Harry E Portsmouth	o898	Hapgood, WmWarren
0994	Green, Harry MMt. Vernon	0549	Harbaugh, Levi Fostoria
0993	Green, IsraelMt. Vernon	2078	Harbison, W. F Spencerville
1084	Green, John T. Mechanicstown	1691	Hardy, A. SUnionville
0576	Greenamyer, EEast Palestine	o888	Hardy, W. A., Sr Lebanon
0654	Greer, HenryMt. Blanchard	0889	Hardy, W. A., JrLebanon
0426	Greiner, C. FLuckey	2107	Hare, AbrahamBellville
0864	Grether, JohnAkron	1997	Harley, J. PAshland
1118	Greve, C. MCincinnati	0492	Harley, John PLima
0358	Greve, T. L. A Cincinnati	0379	Harmar, L. J Pennsville
0360	Greyer, JuliusCincinnati	0690	Harmon, J. FOberlin
-	Groenland, RobtCincinnati		Harmon, M. MColumbus
1307		0049	
0955	Groenland, OttoCincinnati	0937	Harper, C. B Leetonia
1134	Grosse, W. FCleveland	0699	Harpster, DavidToledo
0842	Grossklaus, Jonn F Navarre	0895	Harpster, W. R Genoa
2027	Grossman, Fred. A Cleves	1784	Harrington, FLogan
0440	Grove, Frank B Mansfield	1281	Harrison, J. M Cincinnati
1839	Grubbs, A. L Sabina	o861	Harrod, T. N Bellecenter
0125	Grund, Henry C Fremont	0087	Harshberger, A. L. Tippecanoe
1034	Gutilius, T. F Thornville	1239	Hart, George W West Milton
0257	Guthrie, D. P., JrBelpre	0753	Hart, W. TCleveland
0298	Guthrie, D. S Hillsborough	0969	Harter, H. G
0046	Guthrie, J. HConneaut	0525	Harter, MartinMilan
1813	Guthrie, J. W., SrAberdeen	2549	Harter, Otto MMilan
1013	James, J. 111, Direction	~349	cancer, one anninimation

0763	Hartinger, W. MMiddleport	2151	Higley, W. CCoolville
0885	Hartman, A. HGalion		Hildaboldt, C. W. Germantown
	Hatton, Chas. FZanesville	1142	Hildard N. C. W. Germantown
1870	Hatton, Chas. FZanesvine	1213	Hildreth, N. GCheviot
2517	Hatton, Edgar MZanesville	0765	Hill, C. E Richwood
1869	Hatton, Elmore WZanesville	1190	Hill, F. PVan Wert
0054	Hauck, A. LOttawa	1032	Hill, L. KSenecaville
0035	Hauck, ThosColumbus Grove	0053	Hill, J. L
0135	Hauenstein, A Bluffton	1423	Hill, M. S East Liverpool
0825	Hauser, J. C Sandusky	0586	Hill, Walter Swanton
1093	Hauser, MarthaRipley	2180	Hill, WmUhrichsville
0758	Haus, JohnSt. Marys	1710	Hill, W. AOakwood
0264	Haven, W. HFindlay	0691	Hilles, Geo. EBarnesville
0077	Hawkins, M. JBrunswick		Hinder T W Maria
	Hambins M S Colom	0877	Hinder, J. WMarion
0045	Hawkins, M. SSalem	0048	Hines, J. AVan Wert
1282	Hawkins, R. LCincinnati	0667	Hipple, J. H Andover
0702	Hawley, A. KJefferson	2519	Hittler, J. A Columbus
1016	Hawthorn, D. MCambridge	1493	Hoberg, Herman H Cincinnati
0456	Hayden, Mary ECincinnati	1025	Hoberman, H. CMarion
1024	Hayes, O. PMantua Station	1242	Hobensack, J.D Martin's Ferry
0032	Haynes, J. FIronton	1424	Hodson, J. I East Liverpool
2136	Hays, ChasFostoria	0191	Hodson, M. TPioneer
1151	Hayward, J. LGallipolis	1960	Hoehn, JohnCleveland
0436	Hearson, R. TAttica	2054	Hoeveler, JosephCincinnati
1809	Heath, F. TCuyahoga	0616	Hoffman, JohnToledo
1810	Heath, F. SCuyahoga Falls	0465	Hoffman, J. L New Bremen
0076	Heath, F. MWhite House	1746	Hoffman, Otto L Columbus
1808	Heath, T. FCuyahoga Falls	0362	Hofling, A. JCincinnati
1547	Hebenthal, L. W Paulding	0315	Hoge, J. BSt. Clairsville
0204	Hebner, ADayton		Hoglan, PhilNewcomerstown
	Hechler, G. LCleveland	2509	
0453 1623	Hedges, Pearl JPiqua	0534	Hohly, CharlesToledo
	Heffelman, W. MsCleveland	1126	Hoisington, F. North Lewisburg
0532		2021	Holcomb, H. CPierpont
0570	Heffley, J Canal Winchester	1054	Holden, C. EMineral Point
1805	Hefling, DGilmore	0781	Holland, E. FBasil
0363	Heinemann, ArthurCincinntai	1602	Hollenback, E. FCincinnati
0934	Heinemann, OttoCincinnati	0470	Hollenbeck, M. WCincinnati
2057	Heister, J. PCincinnati	1973	Hollister, D. WWauseon
0153	Heitzman, AToledo	0123	Holman, Harry NColumbus
1421	Helfer, C. EAkron	1193	Holman, J. HSciotoville
2148	Heller, L. SNew Haven	0816	Holmes, C. EToledo
0935	Helman, C. MMadisonville	0918	Holmes, W. W Columbus
1993	Helmick, S. C Commerc'l Point	1254	Holtz J. MFairview
0294	Henderson, C. BAthens	1968	Honecker, AbrCleveland
2068	Hendess, FrankBrooklyn	1967	Honecker, Jacob JCleveland
0058	Henry, John KBasil	2092	Hooker, R. J Roscoe
1105	Henry, Wm. A New Vienna	0703	Hoopes, M Minerva
3566	Herbst, EdColumbus	0704	Hoopes, Wm. W Minerva
1932	Herbst, Fred. WColumbus	0535	Hoover E. CDayton
2164	Herring, WmSt. Johns	1585	Hoover, JamesGoatis P. O.
0427	Heun, EmilElmwood		Hoover John Grone City
0438	Hickman, W. GNelsonville	0192	Hoover, JohnGrove City Hoover, R. COsborn
1644	Hickok, H. MAshtabula	0396	Hower 7 T
0809	Hiester, C. WMassillon	1534	Hoover, Z. TDayton
-	Higgins C O Pain!!!-	0246	Hopkins, Wm. H. Lynchburgh
1357	Higgins, C. O Painesville	1519	Hopp, Lewis CCleveland
1356	Higgins, G. HPainesville	0047	Hornung, JohnDresden

0	Horst, J. HCleveland		Jackson, Geo. WMt. Healthy
0598	Horst, J. 11 Erederichten	1991	
0636	Hosack, CFredericktown	1635	Jacobi, AlbertFairmount
0788	Hosack, H. EShelby	o866	James EllisHarveysburgh
1266	Hostetter, S. AAnsonia	0700	Janny, J. EWaynesville
1265	Hostetter, T. JAnsonia	1536	Jeffrey, D. GTiro
1070	Horn, Allen TLewisburg	I 537	Jeffrey, F. MTiro
0983	Hosler, Geo. RShauks	1167	Jenner, A. B Jenera
0664	Houghton, J. WWellington	0701	Jewell, M. TYoungstown
0361	Hovekamp, Jno. JCincinnati	1144	Jewitt, W. ALorain
1038	Hovey A. D	1680	Johns, W. A Newcomerstown
	Hovey, A. DChardon Howell, J. BMcComb	0467	Johnson, Chas. B. Middletown
1613	Howell, J. GFreeport	2085	Johnson, C. SCarthage
2061	Haman Walter H. Chilliantha		
0099	Howson, Walter H. Chillicothe	1521	Johnson, Eugene
1934	Hoyt, Harry H. North Fairfield	0161	Johnson, GeoGrafton
0450	Hubbard, E. BTiffin	0878	Johnson, Chas. S. New Concord
1205	Hubbell, C. L Monclova	1846	Johnson, James A Springboro
2104	Huber, HOltawa	1387	Johnson, JosephSarahsville
1060	Huber, J. MFindlay	0595	Johnson, J. LParkman
1878	Huber, Sam'l Findlay	1433	Johnson, J. MSteubenville
1571	Huffman, MarionBellaire	. 0174	Johnson, J. RZanesville
0712	Hugg, P Middleport	1670	Johnson, J. TMilnersville
1116	Huggins, T. A Chesterville	0479	Johnson, ThosSteubenville
2119	Huggins, T. A Chesterville Hughes, W. K Berlin Centre	0235	Johnston, Frank T Bucyrus
0840	Hughey, BFrankfort	0234	Johnston, R, TBucyrus
2125	Hughey, W. FYellowbud	2099	Johnston, S. T Coldwater
1133	Hulbert, E. AZaleski	1222	Jones, A. S Bainbridge
1616	Hull, H. MCleveland	0283	Jones, CSaint Paris
1597	Hull, W. T Millersburgh	1244	Iones, David Columbus
2178	Hulls, D. WRockbridge	1221	Jones, Homer EFrankfort
1408	Hulse, A Centreburgh	0459	Jones, J. HPomeroy
3561	Humiston, L. PCleveland	0375	Jones, M. B Venedocia
1721	Hummel, H. LBaltimore	1151	Jones, Thos. W., JrOak Hill
0944	Humphrey, D. J Napoleon	0695	Jones, W. D Newark
0493	Humphrey, W. H, Yellow Springs	1429	Jones, W. JSmithfield
2145	Hunter, F. C Wapokoneta	0166	Joyner, W. TDelaware
1724	Husman, Martin Cleveland	1485	Judkins, T. CBridgeport
0939	Hussey, J. M New Vienna	1445	Jump, James SKansas
0563	Huston, ChasColumbus	1743	Justice, C. RPoland
0457	Huston, J. CCollege Corner	1905	Justice, JosephGilboa
1322	Huston, T. BToledo	1906	Justice, T. POttawa
1402	Hutchison, A. JCambridge	0540	Kaeffer, Charles JCincinnati
1403	Hutchison, J. C Cambridge	•	Kaestlen, Samuel E. Cleveland
0685	Hutt, PeruWaverly	0751	Kallmeyer, F. GCincinnati
1019	Hyers, W. HDayton	1790 0893	Katter, Geo. WDayton
	Ingalls, M. WLaGrange		
1677	Ingalis, M. WLaGrange	1284	Kampsmueller, CCincinnati
1184	Ingersoll, C.H. North Ridgeville	0259	Kapper, MartinCanton
0495	Inman, Chas. TAkron	1709	Karb, George JColumbus
0494	Inman, Sidney CAkron	1603	Karıman, WmCincinnati
0726	Ink, Chas. EColumbiana	0975	Kauffman, D. EPayne
0551	Ink, H. H. Leetonia	2536	Kauffman, Geo. BColumbus
1716	Irwin, Chas. L Mansfield	1309	Kautz, A. FCincinnati
1685	Irwin, Chas. H Martinsville	2170	Kautzleben, H Dayton
2016	Isaacs, Benj. S Dayton	1047	Kayser, WmWapakoneta
1910	Jackman, WinfieldKnoxville	0941	Kearns, F. M Bridgeport
1913	Jacks, L. WMentor	1786	Keepers, G. A Beallsville

1792	Keeshan, E. ACincinnati	2033	
1308	Keeshan, JohnCincinnati	1462	
2047	Keeshan, M. F	0364	
0870	Keiper, FranzCleveland	0354	
0871	Keiper, LouisCleveland	0228	
0127	Keiper, LouisCleveland Kelch, J. RTarlton	1665	:
0083	Keller Charles Reading	1666	:
1136	Keller M Dayton	1888	:
1587	Kellison W H Ouince		:
	Kally C F Caladania	1326	:
1175	Kelly, C. ECalcullia Kelly, W. T. Frankfort	1234	
0003	Keller, M Dayton Kellison, W. H Quincy Kelly, C. E Caledonia Kelly, W. T Frankfort Kelly, W. W Ottawa	1391	:
0055	Vers D. C. Ada	1959	;
1988	Kemp, D. G Ada Keenan, G. W Upper Sandusky Kennedy, C. W Deavertown Kennedy, Francis Bryan	1112	
0583	Keenan, G. W Upper Sandusky	0300	1
0623	Kennedy, C. WDeavertown	1667	
0348	Kennedy, FrancisBryan	1463	1
0959	Kennedy, S. F Felicity	1418	1
0468	Kerr, Chas. DGallipolis	1364]
0319	Kerr, Frank PHuntsville	0107]
0822	Kerans, G. RCuba	0461	į
0735	Kerns, J. LQuincy	1722	
1927	Keuler, P. LRochester	2039]
1283	Keuler, P. LRochester Kiehl, WmCincinnati	1526	1
0454	Kieffer, George, Cleveland	1527]
2543	Kienzle, FrankColumbus	0599	1
0452	King, Chas, ECincinnati	1460]
1220	King, C. FArlington King, M. V. BCanfield	0355]
0189	King, M. V. BCanfield	0957]
2156	Kingham, Joseph. Rocky Ridge	0851]
1646	Kinsey, Joseph Pleasant Hill	1375	1
1494	Kinzbach, F	1472	1
1754	Kiplinger, J. WWest Salem	1782	1
1558	Kinn Conred Greenville	1303	1
1182	Kipp, Wm	1436	1
0324	Kirchhofer P Paul Massillon	1073	i
2530	Kirchmaier G A Toledo	1752	í
1883	Kirchmaier Hugo C Toledo		1
1882	Kirchmaier, Wm Toledo	1951	í
	Virlenatrials T A Flushing	1952	j
0547	Kirkpatrick, J. A Flushing Kirkpatrick, W. P Utica	1700	i
1715 0791	Viscobnes for N Totale	1488	i
	Kirschner, Jos. NToledo Kistler, D. SPalmyra Klaphacke, Jno. H. Cincinnati	0096	i
1113	Kistler, D. S	0404	
1762	Kiapnacke, Jno. riCincinnati	0615]
0365	Klayer, Chas. F Cincinnati	1464]
1791	Klayer, Louis Cincinnati	1098]
0464	Klein, David Madisonville	2087]
1017	Klein, CMadisonville Klussman, F. JElliston	1859]
0980	Klussman, F. JElliston	1233	1
1918	Knapp, Mrs. Delia A Kilbourne	0524]
1643	Knapp, G. LeRoyAshtabula	1170	1
1979	Knapp, JohnCleveland	1588	1
1963	Knopf, H. CAkron	2015	1
1329	Knopf, H. CAkron Knowles, F. WFelicity	0906	I
0163	Koons, C. WCanton	1921	1
1541	Koch, HermanCincinnati	0800	I
	*		

2033	Kochenderfer, Jno. A Rendville Koehler, R. H Cincinnati Koehnken Herman H. Cincinnati
1462	Koehler, R. HCincinnati
0364	Koehnken Herman H. Cincinnati
0354	Koenig, John H Cincinnati
0228	Kolh Adolph Columbus
1665	Kraps, J. F Dexter Kraps, John W Dexter
1666	Krans John W Derter
1888	Kraps, John W Dickerington
	Vantage C U Vantageou
1326	Krauter, C. H I dungstown
1234	Krauer, E. D Pickerington Krauter, C. H Youngstown Krebs, Chas Cleveland
1391	Krebs, K. I Westiminster
1959	Krebs, WmCleveland
1112	Krebsz, HermannCleveland
0300	Krehbiel, A. JDayton
1667	Kremer, Julius A Columbus
1463	Krieger, J. CCincinnati
1418	Krehbiel, A. J Dayton Kremer, Julius A Columbus Krieger, J. C Cincinnati Krimmel, John L Circleville
1364	Krumm, John MToledo Kuester, L. CZanesville
0107	Kuester, L. CZanesville
0461	Kuhlmeier, HenryCleveland
1722	Kumler, I. A Baltimore
2039	Kumler, J. ABaltimore Kunkle, David CDayton
1526	Kusnick, Francis Riverside
1527	Kusnick, FrancisRiverside Kusnick, LeopoldVersailles
0599	Kusnick, Leopold Versailles Kutchbauch, J. F Dayton Kybitz, Louis Cincinnati Kylius, Geo. W Cincinnati Lace, J. H Cleveland Laffer, J. M Akron Lake, J. H Tiffin Lake, V. W Eaton Lamb, J. W Milledgeville Lammert, C. J Cincinnati Landon, L. E Kirby Lane, A. L Monroeville Lane, L. B Cleveland Lane, E. R Cleveland Lange, F. R Sandusky City Langenbeck, A Cincinnati
1460	Kubitz Louis Cincinnati
0355	Kyling Geo W Cincinnati
	Lace I H Cleveland
0957	Laffer I M Akron
0851	Lake 1 H Tiffin
1375	Lake, J. III
1472	Lamb T W Milledgeville
1782	Lamb, J. W
1303	Lammert, C. J Cincinnati
1436	Landers, Geo. W Cincinnati
1073	Landon, L. E Kilby
1752	Lane, A. L Monroeville
1951	Lane, L. B Cleveland
1952	Lane, E. KCleveland
1700	Lange, F. K, Sandusky City
1488	Langenbeck, ACincinnati
0096	Laneing R H (hillicothe
0404	Lash, E. R Athens
0615	Lash, E. R Athens Lattimer, E. G Hilliard Latimer, Ira N East Liverpool Latimer, J. W Rock Creek
1464	Latimer, Ira N East Liverpool
1098	Latimer, J. WRock Creek
2087	Latimer, O. B Rock Creek
1859	Latimer, O. B Rock Creek Latimer, V. D Rock Creek
1233	Latin, Geo
0524	Latin, Geo
1170	Lauer, J. DConover Laughlin, RSteubenville
1588	Laughlin, RSteubenville
2015	Lautenschlager, Geo. C. Davton
0906	Lautenschlager, Geo. C Dayton Laver, P. J Mansfield Law, H. B Deersville Lawson, David Warsaw
1921	Law, H. B Deersville
0800	Lawson, David

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0801	Lawson, David J Warsaw	1385	Lorey, C. NCircleville
0245	Lazier, W. DXenia	1229	Lotze, GeorgeGirard
1978	Leas, WilliamWest Sonora	0651	Lotze, Louis L Girard
I 102	Leobold, John FAttica	1091	Loutzenheiser, J.D. New Phila' phia
2502	Ledman, O. SColumbus	1035	Love, J. CMoscow
1618	Lee, A. A	0327	Lowry, A. JLeipsic
0394	Lee, E. BGarrettsville	2134	Lowry, O. FLore City
0997	Lee, E. S Coshocton	1854	Lucas, J. H Proctorsville
1617	Lee, N. OPainesville	0132	Luckey, G. W South Charleston
0996	Lee, S. HCoshocton	0062	Ludlow, CharlesSpringfield
1998	Lee, W. G Painesville	1192	Ludlum, S. D Middletown
0409	LeFever, H. J Eldorado	2014	Luebkert, HugoCincinnati
0776	Legg, George W Latham	1645	Lyle, G. WScio
0933	Lehmkuhl, J. B Hamilton	0084	Lynde, I. PKensington
0211	Lehr, PhilipCleveland	1388	Lyone, T. J Brown
2185	Lehrer, Chas. ASandusky	1890	Lynn, E. D Canfield
1865	Leist, IsaNapoleon	1053	Lynn, G. A Akron
2513	Leman, M	1891	Lynn, Geo. F Canfield
0419	Lentz, C. FColumbus	0124	Lyons, Geo Milford Centre
0828	Leonard, A. WKinsman	1931	Lyon, L Conneaut
1140	Lerch, JAmanda	2169	Lytle, T. M West Milton
2100	Leslie, B. F Convoy	0178	McAnnally, Horace WTroy
0243	Lewis, A. CBucyrus	1190	McBean, J. SCadiz
0308	Lewis, A. LHamden Junction	0321	McBride, C. F Youngstown
0498	Lewis, B. GGirard	1127	McCall, A. FBethel
1420	Lewis, E. DJackson	0229	McCarter, E. NColumbus
0159	Lewis, E. NDefiance	0207	McCarty, H. CZanesville
1137	Lickes, R. PSteubenville	2165	McCaskey, C. BCincinnati
1941	Light, G. A. Columbus Grove	0510	McClain, HughLetart Falls
1107	Lincoln, J. C Bowling Green	0550	McClain, M. HGalion
0485	Linden, H. FCleveland	1936	McClellan, A New London
2545	Linden, W. ECleveland	1749	McClintick, S Mt. Sterling
0857	Lindsley, D. CCleveland	1974	McClellan, W. MAshland
0179	Lindsey, E. D., Jr Mansfield	0031	McCloud, R. C Plain City
0180	Lindsey, E. H Mansfield	0863	McCloud, S. N Marysville
1200	Lingan, E. C Dennison	0775 0288	McCallough, T. TSomerton
1796	Lingan, John RColumbus	0288	McConnell, Dell . Green Spring
1310	Linnemann, J. H Cincinnati	0190	McConney, W. T Atwater
1008	Linvill, A. H New Salem	1155	McCormick, J. TXenia
0353	Lippert, Otto C. FLoveland	0985	McCormick, Chas Doylestown
0407	Lippert, H. GLoveland	2528	McCoy, FrankCleveland
0173	Lisle, J. D.,Springfield	1094	McCoy, H. FChauncy
8100	Little, J. Boyer Fredericksburg	1549	McCoy, J. NKenton
1924	Little, J. MBradford	0622	McCuen, L. A Independence
0272	Littler, J. W. North Robinson	1789	McCullough, A. H Mansfield
2508	Lloyd, J. U	0742	McColloch, C. RFremont
0471	Lloyd, N. A Cincinnati	1866	McCullough, Wm New Athens
o 886	Lockard, JCanton	1348	McCulloch, R. SFremont
0481	Lohman, O. FCleveland	0660	McDonald, S. S. New Lexington
0841	Long, W. A Steubenville	1483	McDonnel, AAntwerp
2149	Long, L. W New Haven	0578	McDowell, O. H Medina
0378	Longbrake, D. W. Logansville	0579	McDowell, R. M Medina
101	Longshore, S. D New Lisbon	0339	McEwen, T. R Youngstown
1255	Loomis, N. POlmsted	1917	McFadden, H Magnetic Springs
1495	Lorentz, J. N Cincinnati	0161	McGarraugh, T. S Greenfield
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1367	McGaughey, J. H Hubbard	1518	Mayell, ACleveland
0575	McGill, W. WSalineville	2012	Mayer, John ADayton
0506	McGaughey, J. HHubbard McGill, W. WSalineville McGonagle, A. BBrilliant	1837	Maxwell, Geo. F West Liberty
2059	McGonagh, RobertSalineville	2540	Meggenhofen, C. WColumbus
0413	McIlvaine, J. JCleveland	1311	Meiminger, ACincinnati
	McIntosh, J. N Irondale	1471	Malsheimer C A Van Wert
2116	Markansia A G Welleville		Malsheimer F I Shelby
1868	MacKenzie, A. G Wellsville MacKenzie, C. S Cleveland	0511	Melsheimer, E. JShelby Melsheimer, W. W. Van Wert
1614	Mackenzie, C. S Cieveland	1470	Melalic C D Cardada
0484	McKeown, S. WYoungstown	0638	Melville, C. RSandusky
0483	McKeown, W. W. Youngstown	0637	Melville, Wm. MLima
1785	McKinley, JUhrichsville	1761	Menninger, J. G Cincinnati
1064	McKinley, J. MAda	0773	Mercer, A. BCorning
1560	McLean, AlexanderAugusta	1027	Mercer, C. B Cuyahoga Falls
1274	McLain, I. HUrbana	0772	Mercer, C. L. VMt. Vernon
1561	McLean, Will TAugusta	1652	Mercer, F. TCenterburgh
2088	McLeod, A. L Central College	1862	Mercer, J. IPortsmouth
2065	McLeod, J. R Benton Ridge	0252	Mercer, M. N Bellaire
	McMillen, W Greenwich		Metz, A. HEast Liverpool
0920		0953	Metz, John WYoungstown
1374	McMullen, Geo. W Toledo	0649	
0517	McNaughton, M. W. Coshocton	1793	Meyer, Geo. ECincinnati
1248	Maddox, G. E Newtonville	0142	Meyer, H. CSt. Clairsville
0241	Maddox, WmRipley	0892	Meyer, JohnLima
0240	Maddox, W.E Ripley	0891	Meyer, William Piqua
1631	Magruder, J. JSomerset	2559	Meyer, Wm. VCleveland
1169	Mahaffey, I. WByhalia	1246	Michael, CBellebrook
2000	Mahaffey, J. WByhalia Manville, A. JBowling Green	1434	Michael, J. F Palestine
1877	Markle, J. BFindlay	1028	Milbourn, L
0617	Markley, L Georgetown	1062	Miller, C. MStryker
	Marmon, J. YLima	0829	Miller, E. C New Carlisle
2153	Market, C		Miller, E. O Toledo
1681	Market, C Transition	2532	
1342	Marquardt, Jacob F Tiffin	0908	Miller, F. C. New Philadelphia
0210	Marquis J. S New Lisbon	1834	Miller, F. JWest Union
0183	Martin, AlexanderHannibal	1376	Miller, G. WJackson
0016	Martin, J. DReynoldsburgh	0103	Miller, J. E Darbyville
1489	Martin, W. JCincinnati	0545	Miller, K. DNeville
1365	Martindell, FHamilton	1324	Miller, L. ASteubenville
1477	Marriott, E. LDupont	1323	Miller, M. LSteubenville
1935	Marshall, HughSt. Martin	0200	Miller, OrlandoNewark
0706	Marshall, H. B Brookville	1415	Miller, P. BGettysburg
2124	Marshall, Samuel BAgosta	0384	Miller, Rodney, West Farmington
1874	Marty, Louis KCincinnati	0546	Miller, WNeville
1699	Marvin, J. P	0289	Miller, Wm. C Hamilton
	Mason, Chas. CBuchtel		Miller, W. H New Philadelphia
0129		0907	
2096	Mason, David, JrOregonia	1807	Miller, Thomas J Hopedale
0715	Mason, G. W Stafford	1251	Milnor, W. LFayette
0714	Mason, J. L Stafford	0722	Minton, J. ESidney
0990	Mason, M. P Mansfield	1578	Mills, S. E
0619	Masters, C. WBryan	0859	Moffett, WmArcadia
1719	Matthews, Mrs. G. L New Toledo	0523	Mohn, Carl FCincinnati
0603	Mattison, T. C Berea	1674	Montague, D. TXenia
1501	Mauer, Jacob, LBelivar	1831	Montanus, P. E Springfield
1949	May, Arthur FCleveland	0478	Moon, D. HBlanchester
1990	May, Chas. HPiqua	2138	Moon, L. PWilmington
0618	May, DanielPoland	0846	Moon, OSpring Valley
0165	May, J. MysonKingston	0539	Mooney, M. LCardington
0103	May, J. Mysoningston	~339	, Mr. D

0403	Moore, AlexanderLondonville	1515	Nesbit, James A Bergholz
0078	Moore, A. CAmelia	1473	Nevil, J. WCleveland
0621	Moore, C. ACambridge	1194	Newcomer, J. S Wauseon
1458	Moore, E. CGann	0475	Newcomer, J. S Wauseon Newcomb, N. O Cleveland
2113	Moore, G. HLeesville	1498	Newcomer, M. FPemberville
0128	Moore, J. C West Mansfield	1755	Newell, Thos. ABowerstown
1824	Moore, W. H Bellevue		Newlove, Wm. JColumbus
	Moore, W. HWagon Works	2510	
1362		0171	Newton, Anna D, New Straitsville
0516	Morgan, C. RQuaker City	0170	Newton, G. A. New Straitsville
1058	Morgan, J. B. FClarksburg	1412	Nicholl, E. H New Amherst
0808	Morganthaler, Philip. Massillon	1806	Nichols, D. TNewark
0803	Morris, Evan J Garrettsville	1676	Nichols, EdwinNewark
0968	Morris, Frank	1692	Nichols, E. SCanton
0995	Morris, W. E New Holland	0102	Nichols, JohnColumbus
096 I	Morrison, R. JSteubenville	0101	Nichols, John MColumbus
0958	Morse, Geo. B	0913	Nickerson, F. B Greenwich
0756	Morran, HenryNorth Toledo	1589	Nickerson, Orlo Litchfield
0919	Mortland, J. CEdgerton	1533	Nickum, M. JPleasantville
0013	Moss, J. WNew Richmond	0705	Nihart, D. H Lima
1928	Moss, W. FMaineville	0792	Nill, George C Toledo
2168	Mote, L. MWest Milton	0728	Nipgen, Frank MCincinnati
0395	Mott, F. FGarrettsville	2515	Nipgen, J. A Chillicothe
1191	Mounts, J. LMorrow	2546	Ningen, I. B Dayton
0320	Mudge, W. DWeston	0602	Noble, W. W Berea
2025	Muehlberg, EdwardCincinnati	2097	Noe, A. J
2026	Muehlberg, WmCincinnati	0860	Norman, A. HEdenton
1285	Mueller, C. HCincinnati	2003	Norman, O. MRoseville
1570	Mulford, John HPoplar	0489	Norris, E. G Cleveland
0671	Mund, J. F Cleveland	0488	Norris, E. PCleveland
2122		0698	Norton, H. EIronton
0697	Munn, H. EColton Munson, A. WForest	-	Norwood, Theo. FCincinnati
	Muncon I D E	1312	Nye, C. NCanton
0675	Munson, L. DForest	0577	New Harm T Zamanilla
0154	Murdock, A. WBellefontaine	1768	Nye, Harry LZanesville
2123	Murdock, J. G Malvern	0721	O'Brien. WmCleveland
1731	Murphy, J. JLima Murphy, John T Jamestown	1577	O'Connell, W. J Mingo Junction
0720	Murphy, John 1Jamestown	1524	Odell, JohnDelta
1781	Murphy, J. W Millidgeville	I 544	Ogden, C. WPort Jefferson
1095	Murphy, M. M Ripley	0515	Ogden, E. N
0284	Musselman, ASaint Paris	1545	Ogden, L. CPort Jefferson
1435	Mutchmore, W. MColumbus	0 989	Ogier, J. MCambridge
1467	Myers, A	1648	Ohl, Eli JMineral Ridge
0528	Myers, F. M East Liverpool	1777	Ohler, Jacob, Jr. Liberty Center
0108	Myers, Geo. SCarey	0387	Ohlinger, L. P Wooster
0529	Myers, J. AEast Liverpool	2120	Okey, F. GCaldwell
0903	Myers, K. NFremont	1177	Olmstead, F. EMillersburg
0248	Nace, M. TNew Lisbon	0530	Ong, A. R Martin's Ferry
1340	Nace, Warren, JDeshler	0079	Ong, W. BNew Town
0347	Nachrieb, C. J Wauseon	0496	Openheimer, JohnCanton
1554	Nagle, Altred JOak Harbor	0812	Opperman, ECleveland
0950	Nagler, W. M Hopedale	2539	Orr, SamuelColumbus
1507	Naylor, S. T Canal Dover	0696	Osborn, R. LProspect
1210	Neale, E. LincolnGallipolis	1286	Otis, John CCincinnati
0830	Neff, BNew Carlisle	1275	Ott, FerdinandCincinnati
1455	Negley, W. HWyoming	0349	Otten, OttoIronton
0847	Nelson, J. WSpringfield	0356	Overbeck, B. H., Jr. Cincinnati
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0202	Overholser, S. H, West Manchester	1353	Pretzinger, HDayton
1653	Owen, AlfredOsceola	0875	Pretzinger, M Brookville
1033	Owen, Gomar DLondon	1354	Pretzinger, R Dayton
2518	Desley A T Devenue	0156	Phillips, B. F North Jackson
1446	Packer, A. J Ravenna		Phillips, C. R Salem
1447	Packer, W. BAlliance	0340	Dhilling C. W. Cincinnati
0487	Page, H. MBedford	0366	Phillips, C. W Cincinnati
1096	Palmer, J. G Conneaut	2046	Phillips, E. DCincinnati
0274	Pape, JosephineSandusky	0620	Phillips, F. P Marengo
1287	Pardick, B. JCincinnati	1496	Phillips, William Beaver
0746	Park, W. HElyria	1504	Pickett. John
0644	Parker, A. G. S Struthers	0193	Piercy, C. G
	Parker, Isaac Chester Hill	1829	Plumly, A Barnesville
2173	Darley Tea D Rogart	1401	Plummer, Conrad Sabina
1457	Parker, Jas. D Bogart		Pohlmeyer, E. ACincinnati
0782	Parker, Marcus CCleveland	1875	Pond, Geo. WOlena
0610	Parker, W. R Beverly	1204	Police Worren
0118	Parks, W. H Nelsonville	1041	Pond, W. F
1657	Parrett, W. EGreenfield	0867	Pope, JamesClyde
2074	Parsons, A	0868	Pope, M. A. FClyde
0731	Parsons, Geo. FTroy	0713	Pope, R. W Woodsneid
0946	Parsons, RCleveland	0657	Posten, C. E Neisonville
2174	Patrick, H. WVermillion	0945	Potter, E. JSherwood
	Patrick, MalcomNorwalk	1109	Potts, J. C Belleville
2084	Data and T. A. C. Chimmille		Price, A. QSwanton
0415	Patterson, J. ASt. Clairsville	0346	Probeck, Geo. JCleveland
0414	Patterson, J. JSt. Clairsville	1160	Toronto
1178	Patterson, R. R Nelsonville	0573	Pugh, Geo. CToronto
1880	Potts, T. L East Liverpool	.0514	Pullin, A Barnesville
0780	Paul, F. MBasil	0278	Purdy, Thos. LCovington
0940	Payne, Chas. EPort Clinton	0562	Putnam, R Gann
1331	Pearce, B. L. West Farmington	0402	Putt. A. H Canal Dover
0865	Pearce, J. O. West Farmington	1523	Pott T. P
	Pearce, Leveret McArthur	0147	Pyle, F. T Madison
1011	Desce M C Mason	0880	Pula S. R Kichmond
2112	Pease, M. GMason		Quinn, J. W
2554	Peck, Erasmus DToledo	1551	Quinlin, W. H Larimie P. O.
1953	Peck, J. HCleveland	0589	D.L. II II Clyde
0796	Peet, L. ACleveland	0247	Rabe, H. H
0797	Peet, L. L Cleveland	1922	Raiff, J. K Millersburg
0858	Peltz, J. POlmsted	0873	Rainsberger, A. C. Sherrodsville
0777	Penfield, J. NElmore	1654	Rarey, A. MGroveport
1842	Penfield, S. J Columbus	1823	Rarev. F. S Columbus
0476	Perry, Charles F Cincinnati	000Š	Rathburn, I. C., Gallipolis
1659	Peters, E. JAkron	1532	Rauchkolb, JohnColumbus
	Peters, V. O Shelby	0480	Rave, Herman Cleveland
0687	Determine Albert Cloudend		Rawden, Lucien Windsor
0431	Petersilge, Albert Cleveland	1555	Rawles, Jos. P Lebanon
1901	Peterson, Harry G., Williamsburg	1608	Rawles, jos. 1 Zenesville
1741	Pettit, B. S Hicksville	0429	Rea, D. FZanesville
1740	Pettit, E. M Hicksville	0640	Read, J. A Wauseon
0066	Payton, W. T Manchester	0641	Read, M. E Wauseon
0963	Pfunder, John Marshallville	2548	Reahard, T. M Wilmington
0964	Pfunder, L. P Marshallville	1638	Reakirt, Chas. C., Ir Cincinnati
1548	Phelps, Lyman C Andover	2036	Reakirt, John WCincinnati
1802	Phenegar, B. H Columbus	2011	Ream, John CDayton
	Pheneger, J. WColumbus	1981	Ream, L. M. Washington C. H.
1804	Plants T	-	Ream, O. BSomerset
0627	Plants, T Crestline	0905	Reasoner, M. D Bellaire
0351	Prame, F. JShiloh Pratt, E. SGeneva	1157	Dahan D.C. Togan
1262	Pratt, E. SGeneva	1821	Reber, B. CLogan

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1822	Reber, R. ALogan	0332	Robinson, W. WBellaire
0448	Reed, C. DPomeroy	1748	Robison, E. JLondon
0896	Reed, D Pomeroy	1911	Rockey, JohnChatfield
0766	Reed, Enos Portsmouth	2551	Rockwood, C. H. North Amherst
1270	Reed, G. PRavenna	0093	Rodgers, N. PKingston
1377	Reed, I. NToledo	1442	Roe, R. BElyria
1238	Reed, P. HHayesville	0844	Roedell, G. AGallipolis
0042	Reed, P. RAgosta	1179	Rodgers, Chas Bowling Green
1546	Reed, W. M Agosta	0764	Rodgers, J. AKenton
0916	Reeder, W. W West Cairo	2091	Rodgers, J. HLouisville
2541	Reeg, AdamPortsmouth	1779	Rogers, T. C Wellston
0646	Rees, J. NSouth Charleston	1349	Roller, J. LToledo
2001	Reiber, APleasant Hill	0342	Roller, U. DMinerva
6718	Reid, HenryLebanon	1689	Roller, R. SWooster
•			
0447	Reinert, Lewis Columbus	1981	Rood, M. NMt. Cory
2130	Reinhart, W. H Polk	2189	Rose, D. EAdelphi
0020	Reisinger, L. KGalion	1594	Rosebraugh, A. WNewark
0271	Rempel, Ferdinand Logan	1593	Rosebraugh, J. B Newark
0369	Rendigs, Chas. P Cincunati	1212	Rosewater, NathanCleveland
0301	Resley, Lyman	1345	Rosselott, H. F Buford
0177	Reul, W. W Delphos	0455	Ross, J. D Wadsworth
1760	Revnolds, G. E Fostoria	2110	Roth, Frank MNorwalk
0719	Reynolds, J. A Addison	1744	Roudabush D Goshen
0723	Rhoades, ESolon	0910	Rouse, J. HColumbus
0938	Rhoades, E	1513	Rouse, E. HColumbus
0433	Rice, B. T Newton Falls	0915	Roush, A. H Syracuse
0542	Rice, Wm. LColumbus	0430	Rowland, T. HOberlin
1628	Richard, A. JMarietta	1225	Rudasill, C. HRushsylvania
1838	Richards, J. W Columbus	1682	Ruder, E. GHamilton
0693	Richardson, S. M Metamora	1957	Ruggles, R. RCleveland
0080	Richardson, W. SClarington	0855	Rulmann, R. A Minster
0297	Richey, G. CScio	1863	Rumsbaugh, D. WGreenwich
0536	Richey, L. W New Paris	1258	Rumnell, JamesWharton
0121	Richey, S. COxford	1497	Rummel, J. HLucas
0343	Richter, Sam'l F Philo, P. O.	1506	Rupp, John WWaterville
0843	Rickseeker, DavidNavarre	0367	Ruppert, JohnCincinnati
1747	Riddle, W. HLondon	1574	Rusk, DanielMalta
1751	Ridgley, W. FSteubenville	0410	Russell, A. W. North Bloomfield
1139	Ridgway, B. GCedarville	•	Russell, C. MWest Unity
1043	Ridgway, Chas. Yellow Springs	1037 2121	Russell, W. H Mt. Oreb
1044	Ridgway, C. M. Yellow Springs	1151	Ruseell, W. HKingston
	Riley, E. D Paris		Rust, B. S Cincinnati
0519	Disalan E T Nam Liningston	0533 1288	Rutenick, John Cincinnati
1379	Rissler, E. T. New Livingston		Puer W. I Tunction City
0265	Ritter, Louis FColumbus	0244	Ryan, W. J Junction City
2093	Roach, John TMorrow	1601	Rynard, N. B Kent
0116	Robb, Lucian BCincinnati	0094	Safford, E. RChillicothe
0437	Roberts, John SColumbus	2182	Sager, N
2175	Roberts, W. B Columbus Grove	1203	Salisbury, T. NRussellville
0262	Roberts, W. PSunbury	1690	Salkeld, G. MPerry
2161	Robinson, Alfred Arabia	1336	Saltsman, Wm. A Salineville
1847	Robinson, J. CMifflin	1332	Samsel, H. SBloomville
0219	Robinson, J. E Bellaire	0368	Sander, August Cincinnati
1609	Robinson, JohnGreen Spring	1660	Sander, John MAkron
0733	Robinson, John P Batavia	0600	Sanders, C Metamora
0131	Robinson, P. H., Washington C. H	1469	Sands, J

1572	Sanford, C. A, Middlefield	0473	Seebohn, A. W Pomeroy
0707	Sanford, W. RBrookville		Seeds, S. M. Commercial Point
		1711	
1780	Sanns, James HGallipolis	2171	Seely, H. B Jerome
1209	Sanns, P, A Gallipolis	0588	Seltzer, S. TColumbus
0304	Sargent, A. LDelta	1104	Seltzer, Daniel FAkron
0917	Sargent, H. H Monroeville	2030	Serodino, HermanCincinnati
0305	Sargent, M. S Delta	1080	Seufert, JohnCleveland
1183	Sargent, S. C	2028	Seufert, Max JCincinnati
0401	Satterly, H. B Orwell	2127	Seward, J. A Perryton
0373	Sauer, Louis WCincinnati	2126	Seward, J. F Perryton
1982	Saunders, H. GKillbuck	0398	Sexauer, F. E. Sulphur Springs
0929	Saur, J. CNapoleon	1346	Seybert, R. LHillsboro
0582	Savidge, G. A. McClutchenville	0282	Shafer, C. M Canal Fulton
1902	Sayre, Wm. MLetart	0007	Shallcross, J. HGallipolis
0203	Schaaff, J. HGallipolis		Shanafelt, Fred. M. Greentown
-	Schaefer, AugustCincinnati	2552	Cham A T Ada
1119	Schaeffer, F. NGermantown	1773	Sharp, A. JAda
1141		0299	Sharp, D. W Woodstock
1697	Schaffner, Chas. F Norwalk	1772	Sharp, JohnAda
0552	Schambs, Geo. MCleveland	0960	Sharp, W. TCadiz
0445	Schellentrager, E. A. Cleveland	1026	Sharpless, P. OMarion
1565	Schick, Adam New Berlin	1208	Shaw, E. S Windham
0807	Schiller, G Petersburg	0258	Shaw, Frank K Cardington
o806	Schiller, John H Petersburg	0310	Shaw, GeorgeDanville
1335	Schilling, J. P Louisville	0624	Shaw, James, S Cardington
2503	Schindler, ChasToledo	1966	Shay, Marshal LCleveland
0794	Schindler, Joseph Toledo	0874	Sheekley, C. WCleveland
1530	Schirm, JamesPickerington	1735	Shelden, Frank DBurton
1327	Schmidt, Adam Springfield	0544	Shepared, J. S Nelsonville
1320	Schmidter, F. XCincinnati	1539	Shepler, E Cambridge
0460	Schmidt, Carl. Brooklyn Village	0770	Sherwood, D. W Cleveland
1962	Schmidt, J. J. Brooklyn Village	0887	Sherwood, L. WColumbus
2179	Schneider, Mrs. E Minster	•	Shields, W. R. Newcomerstown
1214	Schmetzler, John BArchbold	1 592 2058	Shipley, R. SBurgoon
			Shriver, S. C. C Shawnee
1995	Schroeder, Geo. A Cleveland	1923	Shriver, S. C. C Shawnee
1232	Schoehut, Christie H. Cleveland	1708	Shuey, Lewis L Fairfield
0293	Scholl, Jacob, J Toledo	0002	Shuesler, John J Loveland
0292	Scholl, JosephToledo	1202	Sidwell, G ERussellville
0787	Schooly, ASomerton	0063	Siegenthaler, H. N. Springfield Sillik, M. Vanlue Simmons, A. H. Conneaut
0323	Schuckers, J. M Massillon	1049	Sillik, MVanlue
0050	Schueller, Aug. W Columbus	0921	Simmons, A. HConneaut
0017	Schueller, Fred. W Columbus	1705	Simons, A. LKirkersville
2504	Schueller, Orloff WCincinnati	0169	Simmons, H. HKirkersville
0206	Schueller, ErnstColumbus	2167	Simons, B.F West Millgrove
1276	Schuler, Wm. CCincinnati	1148	Simons, Chas. PCaldwell
0220	Schultz, B. F West Salem	2162	Simons, H. G Macksburg
1005	Schwartz, John C Hamilton	0922	Simons, H. WConneaut
1077	Scwartz, Fred. WColumbus	1067	Sinclair, A. HBeallsville
1018	Scoby, C. H Hamilton	1020	Sisson, G. WMcArthur
1853	Scofield, L. F Lilly Chapel	0814	Skeggs, C. WGreen Spring
0113	Scott, A. C Columbus	2147	Skellenger, A. D. New London
2031	Scott, A. W Cincinnati	1895	Slack, A. VGraysville
1449	Scott, EdwardWaynesburgh		Slack, Fred. MCleveland
0110	Scott, JohnHilliards	0752 0686	Cloter T W Turning
	Scott, John L Defiance		Slater, J. WIronton
2034 1181	Searl, F. A Painesville	0194 0882	Slocum, E. L Lancaster
1101	Scall, F. A Paluesville	0002	Slosson, F. W Cleveland

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1622	Smith, A. FArcanum	2526	Spohn, Robt. CToledo
1236	Smith, Carl W Newton Falls	0097	Sproat, FrankChillicothe
1505	Smith, Chas. P Creston	0098	Sproat, JamesChillicothe
o668	Smith, C. WCollinwood	0928	Spry, Daniel RPortsmouth
1393	Smith, Edward A Warren	0508	Squire, D. NAshville
1444	Smith, E. D. F West Richfield	0412	Stableton, D. JManchester
1443	Smith, E. T Richfield	1857	Stahl, John VGreenford
1382	Smith F Cheshire	1290	Stammel, Chas. ACincinnati
1604	Smith, Geo. W Cincinnati	0334	Stammel, E. WCincinnati
0653	Smith, JeromeMt. Blanchard	0345	Stansbury, W. EMiddleport
0560	Smith, J. DGann	1502	Stanley, A. DLowell
0260	Smith, TosephAustintown	0267	Starbird, B. F New London
1512	Smith, J. BChester	0266	Starbird, CNew London
	Smith, KirbyHillsboro	0531	Star, N. UDelaware
1398	Smith, L. WByesville	1313	Strasburg, FredCincinnati
0331	Smith, R. WAlexandria	0501	Stausmyer, CFremont
0014	Smith, T. EdCincinnati	1261	Stecker, Henry WCleveland
1339	Smith, I. Ed Cincinnati	1451	Steele, C. HSteubenville
1180	Smith, W. FPainesville Smith, W. GHillsboro	1840	Steele, E. MSteubenville
1399	Smith, W. G		
0420	Smith, W. HHoward	1567 1480	Steele, W. CNew Berlin
1264	Smith, Wm. MCoshocton	•	Steele, W. WChillicothe
1400	Smith, W. RHillsboro	0044	Steely, E. AAnna
1416	Smith, W. TSpringfield	1590	Steese, C. WLake
0065	Smithnight, AlbertCleveland	0399	Steever, H. CCincinnati
0064	Smithnight, LouisCleveland	1675	Stein, F. LNorwalk
1938	Snear, F. AStryker	1615	Steinbacher, EAkron
1478	Snyder, W. A Evansport	2521	Steinbrueck, OttoToledo
1361	Suodgrass, W. WKenton	1319	Steineck, H. GCincinnati
2187	Snow, A. G	1314	Steineck, Joseph FCincinnati
0092	Snyder, A. LBryan	0629	Steinhoff, Adolph Fort Jennings
2527	Snyder, D. J Scio	2192	Steinhoff, W. SColumbus
1818	Snyder, G. NLa Grange	084 9	Steinkamp, J. G Elmore
1764	Snyder, H. HLondon	1663	Stem, D. WSavannah
1920	Snyder, J. S Macksburg	0146	Stemen, S. A Elida
0021	Sollmann, LCanton	0374	Stenger, EdwardCincinnati
0802	Somers, G. HoraceAkron	1289	Stephan, AugustCincinnati
0596	Sords, Thos. VCleveland	1620	Stephens, J. C Ashland
2043	Spamer, HugoCincinnati	1337	Sterling, S. L Carrolton
0372	Spangenberg, ECincinnati	1338	Sterling, S. LCarrolton Sterling, M. CCarrolton
0505	Spangler, GeoBurbank	1569	Sterrett, John A Troy
0416	Spaulding, C. DGalion	0175	Stevens, JohnJohnstown
	Spayd, C. EToledo	1249	Stevenson, L. KWest Unity
0790	Spayd, H. WToledo	1425	Stevic, T. MShiloh
0793	Sprague, J. ArthurToledo	1726	Stewart, A. HBrookfield
0648	Sprague, L. CPemberville	•	Stewart, ChasAshville
0167	Speker, P. WBotkins	1977	Stewart, J. E Brookfield
2095		1125	Stewart, Geo. E. Cadwallader
1427	Spencer, C. A Crestline	2080	Stewart, H. WSteubenville
0249	Spencer, Henry New Straitsviile	1378	Stewart, J. KAuburn
0205	Spengler, J. G Dayton	0673	Stewart, J. MAUDUR
0270	Spenzer, John GeoCleveland	1240	Stewart, R. FEast Liverpool
0269	Spenzer, M. HCleveland	1825	St. John, I. LTiffin
0805	Spiker, C. A Tippecanoe	1763	Stockham, A. HMadison
0268	Spenzer, P. ICleveland	0608	Stierle, J. GVersailles
1166	Spieth, Wm. FCleveland	1703	Stilson, S. BGibsonburg
0876	Spitler, SamuelBrookville	0424	Stitt, J. YBloomingburgh
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1268	Stockman, H. SLoudonville	1076	Thomen, A. AColumbus
1454	Stockman, H. TLoudonville	1687	Thompson, A. M. Columbus Grove
1454 1889	Stockon, MCarrollton	1260	Thompson, H. WSidney
0734	Stockwell, EQuincy	0295	Thompson, R. AKent
0439	Stokes, C. C. West Middleburg	0434	Thorp, AbnerCincinnati
0109	Stone, L. B Belpre	1769	Thorp, I. B Midland City
0820	Stoskopff, GeorgeCleveland	0966	Thuma, J. WShaucks
1900	Stover, H. FDayton	2506	Thurston, AzorGrand Rapids
2060	Stover, I. SDayton	0613	Thyme, HenryUhrichsville
0971	Strawser, D. S Adelphi	0574	Tielke, GustavCleveland
1756	Strayer, D. WDe Graff	0884	Tielke, HenryCleveland
0387	Strickland, Dwight Niles .	0158	Tiffany, H. BClyde
0148	Strong, FinneyWilkesville	o686	Tilly, WmCincinnati
0572	Strong, R. B Jamestown	1929	Timmermann, J. D Leipsic
1000	Stroedter. ErnstColumbus	2129	Tipson, T. CWilliamsport
0069	Strock F. E Cleveland	1542	Titsworth, R. LMt. Victory
1598	Strock, E. E Cleveland Strome, J. J Millersburg	0463	Tobey, Chas. WTroy
1478	Stubbs, N. BStryker	1627	Tobey, Nathaniel Troy
1954	Stuckenholt, W. H. Cleveland	2071	Todd, H. FMontgomery
0393	Stumm, R. C Wilmington	0341	Todd, James FColumbiana
2154	Sturgeon, G. W N. Georgetown	1942	Tompkins, I. SAvondale
0767	Sturgis, J. RDalton	1128	Town, Robt. MBethel
1892	Stutz, Frank A Upper Sandusky	0226	Townsend, P. AWindsor
1528	Styer, Wm. HMarietta	0932	Trader, A. J Dennison
0027	Sulliger, Wm. R. HForrest	1048	Treece, GilbertVanlue
2020	Sutterfield, C. W West Union	0593	Trembley, J. S Frazeysburg
2501	Sulzbacher, Wm. F., Chillicothe	0594	Trembley, Thos. G Frazeysburg
0325	Swan, C. D Orville	1919	Triem, TheoPortage
1610	Swan, Wm. SSouth Toledo	0152	Trimble, Frank FSalem
1611	Swan, Mrs. Wm.S South Toledo	0872	Trimble, O. TUrbana
0635	Swayer, J. W Cleveland	0151	Trimble, Robt. P Salem
0318	Swift, Chas. EAshtabula	1253	Trisler, L. WHighland
0526	Swift, R. B Kingsville	1550	Troupe, TheoSpringfield
10u7	Swingle, Jas. LMt. Gilead	1257	Troyer, Levi DShanesville
1197	Sykes, OtisChicago Junction	1933	Truesdale, Wm. FJasper
2061	Taggart, P. S. New Lexington	1453	Tschanen, G.W., Upper Sandusky
1211	Tallance, Wm. T. A Syracuse	1452	Tschanen, W.T Upper Sandusky
1636	Taylor, A. JSouth Toledo	0815	Tucker, J. CGreen Spring
0057	Taylor, C. CPerrysburg	1650	Tulloss, B. LAkron
0256	Taylor, EdwinCoolville	1029	Tupa, F. JCleveland
2500	Taylor, F. S Wilmington	1737	Turner, Mrs. J. HShreve
1641	Taylor, H. BBryan	1896	Turner, R. K Rushville
1861	Taylor, J. BAi	1529	Turney, L. MHolgate
0564	Taylor, J. DRoseville	1510	Tuttle, F. AJefferson
0164	Taylor, J. P Mechanicsburg	0571	Tyson, L. BKenton
0255	Taylor, M. ECoolville	1516	Ullman, W. PLoudonville
1655	Taylor, U. BMaumee	1930	Umbenhaur, H. CHicksville
1138	Taylor, Wm West Mecca	1517	Uncapher, D. KSalem
1230	Taylor, W. S Bryan	1108	Underwood, J. W. Bowling Green
0541	Taylor, Z. RWest Jefferson	0553	Urban, J. PCleveland
1483	Terrell, Elliott. North Ridgeville	2565	Urban, TheoCleveland
0212	Thayer, L. HYoungstown	1522	Uthoff, J. H. HGenoa
0117	Thomas, C. ARushville	0231	Utley, JudsonGalena
0130	Thomas, C. GDelaware	1111	Valentine, R. HBelle Center
0126	Thomas, E. StanleyFremont	oo75	Vance, E. PWesterville

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1788				webb, M. wSpringheid
1885	0768		1380	Webber, T. JPlymouth
Van Voorhis, J. E Martinsburg 1926 Vance, C. Shane's Crossing 1936 Vance, C. Shane's Crossing 1936 Vietr, A. C. C. Sardis 1934 Vilter, Herman Cincinnati 1934 Vilter, Herman Cincinnati 1934 Volten, M. H. La Rue 1934 Vogel, A. A. Columbus 1938 Vogt, A. L. Delaware 1432 Vogt, D. F. Cleveland 1974 Voigt, F. H. Holgate 2981 Volka, C Lafayette 1932 Vortkamp, H. F. Milford 1934 Vogger, E. Zaleski 1315 Wagner, C. W. Mansfield 1936 Wahmhoff, John H. Delphos 1937 Walker, J. B. Williamsburgh 1371 Ware, J. M. North Lewisburg 1360 Wall, Andrew. Cambridge 1360 Wall, C. L. Cambridge 1370 Warrer, A. C. Schaming 1371 Warrer, J. B. Mt. Vernon 1382 Warrer, J. B. Mt. Vernon 1383 Warren, J. B. Mt. Vernon 1384 Warren, J. B. Mt. Vernon 1385 Watts, C. D. Broadway 1866 Wattmann, Homer C. Zanesville 1293 Watts, S. S. Columbus 1294 Wattins, S. S. Columbus 1295 Wattins, S. S. Columbus 1296 Warrield, James F. Ironton 1297 Wattins, S. S. Columbus 1298 Wattins, S. S. Columbus 1298 Wattins, S. S. Columbus 1299 Watter, J. A. Nashville 1290 Watter, J. A. Nashville 1290 Watter, J. A. Nashville 1291 Wattins, S. S. Columbus 1292 Watter, J. B. Mt. Vernon 1294 Wattins, S. S. Columbus 1294 Wattins, S. S. Columbus 1295 Wattiner, R. T. Thoroville 1296 Watter, J. A. Nashville 1297 Weeks, B. F. Circinnati 1207 Weeks, B. F. Circinnati 1208 Weis, Chas. F. Dayton 1204 Weis, Chas. F. Dayton 1205 Weis, Chas. F. Dayton 1204 Weis, Chas. F. Dayton 1206 Weis, Chas. F. Dayton 1206 Weis, Chas. F. Cioninati 1207 Weeks, G. W. Belmore 1208 Weis, Chas. F. Dayton 1208 Weis, Cha	1788	Van Gorder, H. LWarren	0567	Webber, Chas. LCanton
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1926 Vance, C		Van Valkenburg, A. T., Spencer	1075	Weed, T. RCheshire
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0312 Virden, M. H La Rue 1904 Vocke, J. F Loramie P. O. 1905 Vogel, A. A Columbus 1908 Vogel, A. A Columbus 1908 Vogel, A. A Columbus 1909 Vogel, A. A. C Columbus 1909 Vogel, A. A Columbus 1909 Volka, C. L. Cambridge 1919 Voss, Geo. W. Cincinnati 1909 Vortkamp, H. F. Milford 1919 Voss, Geo. W. Cincinnati 1909 Vagner, E. Zaleski 1909 Vellas, H. E. Bridgeport 1909 Weller, W. A. Zanesville 1909 Weller, M. D. Cincinnati 1909 Wells, H. E. Wells, W. P. W		Vietn, wm	_	
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1432 Vogt, D. F		Vogt, A. LDelaware		Weisner, A. HBerlin Center
1074 Voigt, F. H		Vogt. D. F Cleveland	1800	Weller, A
2081 Volka, C		Voigt, F. H Holgate		Weller, F. B Jackson Center
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1292 Vortkamp, H. F		Von Chain T. V. Timon Conductor		Wellous, S. G Darnesville
1317 Wells, J. D		von Stein, J.A Upper Sandusky		
October 1972 Wagner, C. W		Vortkamp, H. FMillord		
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1224 Walker, W. W. Wilmington 1876 Wall, Andrew Cambridge 1975 Wall, C. L Cambridge 1976 Walt, E. C Marion 1876 Walton, Harry C Cincinnati 1876 Ware, J. M. North Lewisburg 1877 Warner, Augustus. Akron 1878 Warren, J. B Mt. Vernon 1879 Waterman, H. Ravenna 1879 Watkins, S. S Columbus 1870 Wartis, C. D. Broadway 1870 Weatherbee, J. A. Nashville 1870 Weaver, J. A Montpelier 1870 Weaver, J. G Greenville 1870 West, W. K Toledo 1870 West, Brook A. E Ashley 1870 West, Brook A. E		Walker W D Washingtonsille		West I IF CA Claireville
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0976	Wildenthaler, G. ASandusky	0727	Woodward, Nelson G. Defiance
1490	Wisfert, ErnstCincinnati	1849	Wooster, N. P Elyria
2547	Wilkenson, E. LVan Wert	1625	Wooster, A. R Wellington
0804	Wilkens, D. FLocust Grove	1848	Wooster, W. FElyria
0956	Willamen, E. PSmithville	1072	Wooster, T. SNorwalk
0133	Williams, E. R Nevada	0744	Worley, GeoCovington
1947	Williams, C. MWellston	0743	Worley, T. ACovington
0482	Williams, R. GAlliance	2143	Worthington, A. F Cincinnati
o 663	Wilson, AlbertSidney	0383	Worthington, C. DKillbuck
0998	Wilson, A. CPiqua	1293	Wrede, HenryCincinnati
0925	Wilson, D. CIronton	0160	Wight, F. GDefiance
0277	Wilson, H. CWellston	0039	Wright, HenryBelmont
1723	Wilson, Israel Cincinnati	.1798	Wright, J. MGillespieville
0605	Wilson, T. GBarnesville	1985	Wright, J. MSteuben
0625	Wilson, W. AWooster	1916	Wright, J. N Raymonds
0625	Wilson, Wm,Lexington	1531	Wright, L. EPickerington
1218	Wilson, W. CClarkson	0009	Wright, W. CCleveland
1219	Winbigler, J. MJeromeville	1564	Wright, S. VLyndon
0435	Winkleman, G. HCincinnati	1939	Wyatt, B Edgerton
0737	Winkler, W. H. Apple Creek	1201	Wyrick, C. MBellaire
0469	Winters, AaronIronton	2073	Yant, IsaacDell Roy
0952	Wisterman, IShanes Crossing	0405	Yarnell, Geo. MSenecaville
0380	Witherstine, H. ANova	1436	Yeogley, W. C New Somerset
1559	Witte, L. HCleveland	0561	Yerian, FredSharon
2018	Wittenbrook, C. H Masterton	2045	Yorston, Matthew MCincinnati
1295	Wittstein, ChasCincinnati	0729	Young, Anderson, JLeipsic
0936	Witzeman, A. JLeetonia	2155	Young, J. HSomerville
2051	Wocher, Chas. FCincinnati	2553	Young, L. AToledo
1297	Woesten, A. F Cincinnati	1092	Zartman, DButler P. O.
0442	Wohlgemuth, ACincinnati	2083	Zay, GeorgeCelina
1103	Wolf, C. PWilmot	2062	Zeller, AbiaDayton
1591	Wolf, SimonFremont	1259	Zickes, OttoCleveland
1102	Wolf, Samuel	0566	Zimmerman, JohnWooster
1742	Wolf, S. SAdelphi	0385	Zimmerman, J. R Wooster
1914	Wood, FredPeninsula	1121	Zuenkeler, J. FerdCincinnati
2141	Wood, I. VChesterville	0033	Zwerner, J. AdamColumbus
0783	Woods, W. JMt. Sterling	0034	Zwerner, J. FMarysville
1606	Woodrow, W. CHillsboro		

REGISTERED ASSISTANT PHARMACISTS.

057	Ackeret, Theo. C Massillon	063	Brandel, John JPortsmouth
059	Ackley, J. WGranville	098	Breaden, William Youngstown
028	Adams, Geo. MOxford	081	Brenner, Chas. ELima
112	Aigin, S. C Delaware	178	Brister, J. S Canal Dover
149	Akeroyd, Geo. JDresden	611	Brooks, Fred. A Cleveland
388	Alexander, E. V. McConnellsville	605	Buescher, Fred. W Alliance
	Allen, B. FBelletontaine	071	Burdsal, Edward HCincinnati
134 282	Allen, Chas. L Cleveland		Burrows, A West Jefferson
	Allison, E. HEaton	0157	Burt, T. D Columbus
391		333	
232	Allright, B. FBryan	394	Byard, Grant Warren
457	Altenberger, P.J., Upper Sandusky	313	Cahoe, C. A
276	Amann, C. E Portsmouth	354	Caldwell, E. B Mansfield
060	Amann, Frank O Sidney	143	Carpenter, AnnaDelhi
146	Andrews, Lucy TCortland	385	Carr, Bert. E Liverpool
055	Armbruster, G. E Logan	129	Carter, E. LBryan
272	Arnold, H. ECambridge	066	Case, W. HKent
304	Ashton, Ruth ALima	208	Cassaday, F. V Alliance
377	Austin, LuluPlymouth	207	Cassaday, O. UAlliance
603	Baker, W. HShanesville	400	Chambers, G. A Mt. Pleasant
459	Bailie, Chas. SCleveland	032	Chambers, Sam. V Marion
279	Bailey, Mrs. M East Toledo	446	Chapman, G. HZanesville
147	Bair, J. GFreeport	216	Charles, Xenophon F Republic
455	Baird, W. E East Springfield	360	Chestnut, Chas. S Chillicothe
416	Barnum, J. R Stryker	312	Clark, Ulyssis EXenia
358	Barr, W. BSteubenville	180	Clewers, W. F Jackson
114	Barrett, W. RShawnee	015	Clobitz, EdwardCleveland
289	Barry, GeorgeCanton	004	Coblentz, GuySpringfield
200	Bartholow, J. WNewark	221	Cockerill, WilliamCleveland
292	Bartlett, EstellaCleveland	602	Collins, E. A
036	Bartley, F. A Harrisonville	410	Colwell, Frank F Urbana
119	Barton, David AGallipolis	615	Conner, A. W Cambridge
247	Battles, W. PAshtabula	120	Conrad, F. W Toledo
233	Baumhard, C. C Vermillion	267	Cook, E. A Chardon
166	Beckwith, James ZMalta	328	Cook, E. SColumbus
432	Bell, Robert MCincinnati	022	Corwin, B. B Sparta
	Bentley, S. ONewark	356	Cowden, J. W Poland
290	Billhardt, A., Jr Upper Sandusky	068	Crabbe, H. J Greenville
458	Bishop, Will ANorwalk		Crane, Amelia BGreensburgh
	Black, F. WCleveland	237	Crane, Della V. BIberia
123	Plackman Cos Poinceville	464	Crawford I W Dishmood
422	Blackmore, Geo Painesville	154	Crawford, J. WRichwood
160	Blake, Chas. E Canton	126	Crossland, J. DSt. Clairsville
295	Bleckner, CharlesOak Harbor	011	Crowther, C. IConneant
438	Bliler, Milton Canal Fulton	125	Crumbaker, O. H.P Chandlersville
460	Boessler	175	Culler, F. W Cleveland
395	Borer, Henry JWapakoneta	188	Curry, W. J East Liverpool
067	Bourgeois, ChasCanton	107	Darrah, Ida GBellaire
191	Bowersock, C. H Columbus	048	Davis, Jesse Jeffersonville
079	Boyd, S. H	109	Davis, L. M Cleveland
266	Boyer, Henry. Columbus Grove	287	Davis, Williard HLowell
461	Brady, Frank SCleveland	291	Davis, W. H. CHillsboro

117	Dean, J. W	445	Griffin, James P. Springborough
039	Deemer, Chas. H New Lisbon	606	Grosse, G. MCleveland
141	DeRhodes, FrankSalem	452	Guiney, Ella EWaynesburgh
159	Dischinger, Fred AToledo	431	Gunder, W. HArcanum
428	Dodd, Mrs. Mattie J. Dell Roy	216	Hager, James A Portsmouth
262	Doll. Tonie CSt. Mary's	151	Hague, E. UElyria
056	Donnan, E. V Washington C.H.	1 8 9	Hair, Conradine JAlliance
306	Doran, Isaac ARushsylvania	612	Hale, Pierre JBelpre
307	Dubois, C. JDayton	065	Hamilton, Harry A. Perrysburgh
220	Dull, L. EForest	046	Hamilton, W. O Wellsville
268	Duplor W Glouster	281	Hannah, Henry KGeorgetown
IOI	Duplor, WGlouster Eichler, WCincinnati	184	Hannan, J. RIronton
430	Ellis, T. B Washington C. H.	376	Harrison, M. TPaulding
320	Elwell, W. MZanesville	309	Harter, Chas. BSteubenville
031	Elwood, Harry S Leesburgh		Hathaway, C. W Painesville
185	Enslin, Abert F Cincinnati	434 007	Hauck, A. CColumbus Grove
			Hauger William Candustry
121	Epley, ChasCanal Winchester	161	Hauser, WilliamSandusky
044	Ernst, John Mechanicsburg	082	Hawley, E. BArcanum
343	Fee, Wm. J., Jr Cincinnati	420	Hays, FredFostoria
	Fella, F. J	115	Headley, J. WMarion
361	Ferguson, FrankDefiance	359	Hearson, Frank E Monroeville
164	Fielder, Geo. W St. Paris	037	Heing, Wm. HToledo
225	Fisher, H. W Hamilton	283	Hellyer, S. B Steubenville
078	Fitch, E. O Burgh Hill	094	Henkelman, Henry K. Sandusky
042	Flanders, John W Portsmouth	235	Hildreth, Mary A Cheviot
234	Foerst, Wm. J	334	Hines, C. EVan Wert
454	Foertmeyer, Wm. L Cincinnati	013	Hines, J. BVan Wert
171	Fogle, B. JToronto	614	Herpich, John LColumbus
466	Fogle, M. SCleveland	209	Huberman, W. H Marion
227	Ford, F. E Middlefield	437	Hochstetler, J. C Doylestown
412	Ford, L. AWakeman	224	Holderman, W. S Amanda
153	Fortlage, J. IICleveland	102	Hoffman, JuliusCincinnati
155	Foster, James Cleveland	093	Hoffner, Frank JOberlin
	Frederick, C. H. North Amherst	254	Hollinger, T. H Columbus
352	Frederick, J. MAkron	390	Hoover, L Gratis P. O.
204	Frew, Edward S Coshocton	148	Huppy, HenryPiqua
165	Fribley, Jacob T Navaree	344	Horn, WmZanesville
337	Friedland, Mrs. S. A Coalton	012	Hornung, Richard MDresden
607	Frieseman, William H Cleveland	393	Hosler, J. NShaucks
463	Fulling, E. GCleveland	198	Hosler, L. RoyShaucks
140	Fulton, D. WSidney	331	Hosmer, AngusFindlay
219	Fulton, Norberto DRipley	322	Hoyt, H. WNorwalk
128	Gackenheimer, M. U. Van Wert	030	Hubbard, Lyle Medina
398	Gager, D. AOberlin	096	Hull, L. MNelsonville
017	Galbrath, C. W Manchester	471	Huls, J. W
363	Garlington, W. DCumberland	238	Hunt, T. J
183	Garratt, Eva M Adamsville	286	Hutchings, J. HarveyBellevue
444	Garver, RudyStrasburgh		Hutchins, JohnRoscoe
052	Goddard, B. FFindlay	374	Hutchman, W. MMarietta
026	Goebel, Chas. WSpringfield	317	Ingalls, N. RLa Grange
339	Gonvy, C. HowardCleveland	325	Jay, MyronRavenna
	Gurman, Alice MCincinnati	242	Jenkins, WmDayton
249	Cmham Iohn A Arandala	127	
244	Graham, John AAvondale	305 228	Jewett, George DCleveland
382	Grayum, Chas. W Gallipolis		Johnson, AlbertPainesville
261	Green, J. BPlymouth	070	Johnson, J. DCanton

c	I have W II II-hans		Malla Car W ManaGall
600	Johnson, W. HUrbana	201	Meily, Geo. W Mansfield
213	Johnson, Vara IGrafton	338	Mengeler, George Cincinnati
357	Justice, D. W Poland	124	Mentel, E. H Dayton
450	Karsch, Geo. V Cincinnati	139	Metz, Chas. LYoungstown
118	Katz, Otto WGallion	259	Miller, E. C
231	Kehres, Ed. JCleveland	275	Mitchell, Geo. FColumbus
002	Keiser, N. HDelta	610	Mitchell, Geo. J Cleveland
439	Kellogg, Edwin ECincinnati	347	Monroe, C. ALogan
	Kells, Harry BSteubenville		Mooney, H. SCurdington
274	Vandall A I Tanada	113	Mostley, II. SCurdington
449	Kendall, A. L Fayette	379	Moore, R. O Leesville
049	Kern, J. EBucyrus	212	Morgan, AnnetteClarksburgh
413	Kerr, John Shelby	181	Mariland, D. G Edgerton
108	Kester, J. GWooster	215	Moser, E. A Wapakoneta
421	Kilbourne, H. ACanton	176	Moser, I. FLima
045	King, Kate R Canfield	132	Moses, C. WGeorgetown
408	King, Mrs. M. L Arlington	230	Munch, J. A Toledo
197	Klussman, MaggieElliston	443	Murphy, Chas. WWilmington
085	Knouff, W. L Antrim	072	Murphy, M. J Cincinnati
240	Knowles, Geo. S Felicity		Murray, S. W. Washington C. H.
	Koenig, F. HCincinnati	336	
100	Koenig, F. H Chichilati	035	Murray, ThomasPlain City
373	Kauss, Herman JTiffin	409	Myers, Chas. GLima
144	Krieger, OttoCincinnati	203	McClain, Lewis Letart Falls
090	Krimmell, W. L Circleville	366	McCanaughey, J. H DeGraff
462	Krower, C. TWyoming	448	McCormick, J. K Youngstown
372	Kumler, S. DLondon	324	McCov. R. L
351	Kusnick, L Riverside	401	McCoy, W. J Bloomingburg
131	Lamb, L. N	136	McCracken, J. MBellefontaine
303	Lamparter, JohnAkron	014	McCreight, D. H Ottawa
346	Leach, Sherman Mt. Sterling	122	McDowell, C. OMedina
			McFadden, Chas. L Van Wert
426		402	McFauden, Chas. D van Weit
442	Lefever, E. J Eldorado	084	McKee, H. WilsonAthens
192	Leist, Isaiah, JrNapoleon	348	McKinley, L. P Uhrichsville
018	Leitzell, A. DSeville	329	McLaughlin, J. DButler
288	Leonard, L. CDayton	156	McMillen, C. SMt. Sterling
162	Leonard, N. SKinsman	330	McMillen, FlorenceGreenwich
270	Lewis, Thos. C Jackson	340	McNichols, W Barnesville
170	Leggett, N. EMarysville	327	Neal, J
389	Linser, Geo. J Bucyrus	163	Neff, J. Grant New Carlisle
003	Lindsey, W. BCanton		Nelson, Geo. WSpringfield
010	Long, Lee Richwood	316	Neuer, John Jacob Marietta
075	Long, UriBryan	451	Newberger, Myer Cincinnati
	Lautzenheiser, M. New Phila'phia	023	Nichols, Julia A Columbus
427	Lucas, Chas. C	•	
033	Lucas, Chas. C	314	Nickerson, Alice JGreenwich
172	Luce, James D	401	Noel, C. HVan Wert
041	Lupton, W. ODelaware	349	Norris, T. WMt. Gilead
083	Lush, M. AgnesLoudonville	087	Norwood, J. N
167	Luthringer, Jos. L. East Liverpool	061	Odaffer, David MBucyrus
296	Lutzenberger, Chas Dayton	285	Odell, John LDelta
243	Lyon, Walter PRavenna	323	Oestermeyer, JohnZanesville
252	Maiberger, N Elvria	323 318	Ohl, Sarah J Mineral Ridge
435	Maitland, John K Bedford	177	Packard, Hannah Chatham Center
058	Mandabach, P. A Columbus	150	Park, C. WElyria
3 32	Martin, George W Dayton	609	Parkin, R. J Newburg Station
	Martin, William Cincinnati	-	Parish, Alice
009	Martin Wm Ir Manefald	355	
214	Martin, Wm., Jr Mansfield	217	Pettys, H. RRepublic

		_	01 1 71 4 15 .
016	Peyton, F. RManchester	383	Schroder, John ADayton
223	Pfanner, John ADayton	387	Scott, Addie M Waynesburgh
025	Pflueger, C, FCary	321	Scott, Mary A Waynesburgh
367	Pheneger, H. AColumbus	210	Scott, WinfieldSenecaville
038	Philips, Jemima SNorth Jackson	403	Seebohn, Chas. C Pomeroy
182	Poole, Ira AFayette	4-3	Seward, J. EFremont
	Potter, E. LSherwood	169	Sharpe, John AAkron
193	Davis John N. Donton	-	Chair D D William home
399	Prass, John N Dayton	021	Sharp, R. DWilliamsburg
001	Pratt, E. MDelta	133	Shaw, Alma,Cardington
019	Pray, C. S White House	319	Sheets, M. L
425	Rabe, E. M Clyde	105	Shephard, M. QNolsonville
110	Ralston, G Martin's Ferry	190	Shepherd, Chas. HArcanum
419	Ralston, W. MFostoria	250	Shepherd, Enos H Hillsboro
380	Ray, PlinyPerrysburg	362	Shoemaker, WDeGraff Showalter, D. WSpringfield Shotwell, W. DCincinnati
298	Raymer, C. SCoshocton	341	Showalter, D. WSpringfield
138	Rees, Mrs L. J. South Charleston	092	Shotwell, W. D Cincinnati
	Reid, J. CCuyahoga Falls	-	Shull, H. FLima
369		173	Schumway, C., JrColumbus
054	Remple, RudolphLogan	300	Cidal France F
297	Richards, E. H Litchfield	392	Siddall, Eugene EFindlay
310	Richards, Ed. TMarietta	265	Sight, Henry F. Columbus Grove
111	Richey, R. ENew Paris	097	Silberling, J. II Cleveland
418	Ritzenthaler, P Kipton	253	Sisson, HarveyMcArthur
027	Robb, Clara ECincinnati	277	Smart, C. HPioneer
095	Roberts, Chas. FColumbus	074	Smith, C. FSwanton
229	Robinson, J.S Washington C.H.	465	Smith, LouisCincinnati
	Robinson, L. M Sabina	196	Smith, Frank L Defiance
415	Robinson, Wm. LGallipolis	271	Smith, Wm. PCrestline
384	Rockey, AdolphChatfield	158	Snell, Ira NToledo
406	Darley David Chatcald		
405	Rockey, DavidChatfield	257	Snodgrass, Carrie M Kenton
381	Rogers, GeoBowling Green	371	Snyder, Mary JLaGrange Southard, F. MSpencerville
064	Roll, R. G New Holland	240	Southard, F. MSpencerville
353	Roth, LouisCleveland	088	Spamer, Geo. HCincinnati
258	Rotterman, Chas. EDayton	135	Spidel, C. EWilmot
091	Rowe, C. PCircleville	08 6	Stableton, W. W Manchester
186	Ruch, C. E Salem	239	Stahl, HugoSidney
447	Rucker, B. JRichwood	378	Staker, G. ABreman
076	Russ, A. EShiloh	106	Stamats, W. MBellefontaine
470	Rusk, Wm. AMalta	308	Stausburg, J. B Urbana
202	Russell, Lance MMcArthur	278	Steele, A. E Chillicothe
368	Ryan, Thos. J Columbus	342	Steidle, Chris. F Cincinnati
•	Rynard, Mary AKent		
299	Cogge Tomas Mamarill	302	Steinbacher, E. EAkron
222	Sager, JamesMarysville	006	Steinman, Perry DLancaster
424	Sanders, E. CMetamora	397	Stem, John F Savannah
467	Sanford, H. S Lima	255	Stephan, WmCincinnati
468	Sanford, S., JrLima	245	Stewart, F. CAuburn
440	Saunders, E. G Cleveland	· 350	Stewart, F. CAuburn Stewart, W. NBrookfield
073	Saviers, GeorgePlymouth	423	Stockhaus, Wm. FCleveland
211	Sawyer, Chas. H. Mineral Point	241	Stockmon, Chas. B. Loudonville
608	Saxby, E. AWeston	089	Stover, W. L: Hayesville
469	Seals, C. BCleveland	062	Streich, Philip MPortsmouth
187	Schantz, Jas. JCleveland	407	Stringham, A. WSteuben
248	Schilling, Mary CLouisville	104	Strobel, John BIronton
	Schmetzler, Emil UArchbold	218	
236	Schoomer Coo Dort Clinton		Strutton, L. D., JrNorwalk
069	Schoerger, GeoPort Clinton	103	Sullivan, E. N
145	Schuette, J. RColumbus	44 I	Sutterfield, D. RWest Union

301	Swan, JohnSouth Toledo	365	Weller, J. PWest Liberty
251	Sweney, Geo. WMarion	152	Weimer, J. EHoytsville
256	Swift, Edgar JAshtabula	179	Wenger, F. D Galion
024	Taylor, L. BennettZanesville	206	Werner, Chas. J
335	Taylor, J. H. Washington C. H.	043	Westfall, A. LTroy
433	Thieman, Albert F Dayton	604	Wheeler, F. KLima
199	Thomas, Jas. NLucasville	269	Wetterstroem, TheoCincinnati
311	Thrall, H. HXenia	263	Whinery, W. FSabina
414	Timmerman, J., JrLeipsic	60 i	Whitsit, P. B Columbus
047	Tobler, C. B Thornville	293	Whitcomb, E Cleveland
294	Treon, IsaacLima	370	Whiteis, V. R Kalida
168	Triem, DanielPortage	315	Wickham, Agnes BNorwalk
040	Trimble, B. ESalem		Williams, ENewark
800	Upton, Harley Scott Hamilton	099	Williams, O. GRavenna
137	Uthe, Chas. ACleveland	326	Wisterman, G. J. Shane's Crossing
411	Vance, Elizath I Shane's Crossing	077	Witherstine, ElizabethNova
396	Van Dyke, C. MLebanon	205	Witschner, MartinTiffin
436	Van Dyke, J. MMason	260	Woesten. J. FCincinnati
613	Van Ewegen, Wm. JToledo	051	Wolfe, J. ChasSpringfield
417	Vigus, C. S Xenia	456	Wooster, Alma FNorwalk
273	Vogt, J. JCleveland	264	Wray, R. GLondon
130	Vortkamp, B. HCincinnati	226	Wright, E. SNew London
284	Vassler, J. CGreenville	280	Yaeger, LEaton
050	Wagerly, GeoBucyrus	194	Yerian, W. DSharon
453	Wagner, Wm. SCincinnati	386	Zecher, Louis
174	Walker, J. FSteubenville	195	Zellers, Joseph ASteubenville
029	Wallace, J. L. New Philadelphia	375	Ziliox, David
00;	Ward, H. MLancaster	080	Zimmerman, ChasWooster
429	Warner, W. W Monroe	034	Zimmerman, L. PFremont
053	Weil, JohnFindlay	142	Zubor, PeterFindlay
364	Weller, Chas. GDeGraff	345	Zurborn, ErnestHamilton
020	Weller, G. MZanesville	373	,

